Kurukshetra University, Kurukshetra

SCHEME OF COMPUTER AWARENESS TO BE INTRODUCED AT UNDER GRADUATE LEVEL

Paper Code	Paper Name	Maximum Marks	Pass Marks	Examination Duration
COMPUTER AWARENESS (LEVEL – I) w.e.f. 2010-11				
L1 – (I)	Basic Computer Education	100	35	3 hours
L1 – (II)	Software Lab – I	100	35	3 hours
COMPUTER AWARENESS (LEVEL – II) w.e.f. 2010-11				
L2 – (I)	PC Software & ICT	100	35	3 hours
L2 – (II)	Software Lab – II	100	35	3 hours
COMPUTER AWARENESS (LEVEL – III) w.e.f. 2011-12				
L3 – (I)	Web Designing	100	35	3 hours
L3 – (II)	Software Lab – III	100	35	3 hours

Important Instructions:

1. The theory question paper will be provided by the University.
2. The practical question paper will be set by the examiner on the spot.
3. The workload for theory paper is three periods per week.
4. The practical of students will be held in groups.
5. Each practical group will comprise of 20 students in Level-I and 15 students in Level-II and Level III respectively.
6. The workload for practical paper is three periods per group per week.

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COMPUTER AWARENESS (LEVEL – I)

L1 – (I) BASIC COMPUTER EDUCATION(w.e.f. 2010-2011)

Max. Marks: 100 **Pass Marks: 35**
Exam Duration: 3 Hrs **Workload: 3 periods/week**

Note: The examiner will set total 10(ten) questions covering the entire syllabus. Student will attempt any five questions. All questions will carry equal marks.

Computer: Definition, Characteristics, Applications, Components of Computer System, Input/Output Devices, Concept of Memory, Magnetic and Optical Storage Devices.
Operating System- Windows: Definition & Functions of Operating System, Basic Components of Windows, Exploring Computer, Icons, taskbar, desktop, managing files and folders, Control panel – display properties, add/remove software and hardware, setting date and time, screensaver and appearance.
Word Processing: Introduction to Word Processing, Menus, Creating, Editing & Formatting Document, Spell Checking, Printing, Views, Tables, Word Art, Mail Merge, Macros.
Computer Communication: Internet and its applications, Surfing the Internet using web browsers, Creating Email Id, Viewing an E-Mail, Sending an E-Mail to a single and multiple users, Sending a file as an attachment.

REFERENCES BOOKS

1. Sinha, P.K. & Sinha, Priti, Computer Fundamentals, BPB
2. Dromey, R.G., How to Solve it By Computer, PHI
3. Microsoft Office – Complete Reference – BPB Publication

L1 – (II) SOFTWARE LAB – I

Max. Marks: 100 **Pass Marks: 35**
Exam Duration: 3 Hrs **Workload: 3 periods/week**

Windows Operating System and Word Processing
Practical exposure as per theory syllabi
Computer Communication

1. Connect the Internet, Open any website of your choice and save the Web Pages.
2. Search any topic related to your syllabi using any search engine and download the relevant material.
3. Create your E-Mail ID on any free E-Mail Server, Login through that and implement various operations provided in it.

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COMPUTER AWARENESS (LEVEL – II)

L2 – (I) PC SOFTWARE AND ICT w.e.f. 2010-11

Max. Marks: 100 **Pass Marks: 35**
Exam Duration: 3 Hrs **Workload: 3 periods/week**

Note: The examiner will set total 10(ten) questions covering the entire syllabus. Student will attempt any five questions. All questions will carry equal marks.

Spread Sheet: Elements of Electronics Spread Sheet, Applications, Creating and Opening of Spread Sheet, Menus, Manipulation of cells: Enter texts numbers and dates, Cell Height and Widths, Copying of cells, Mathematical, Statistical and Financial function, Drawing different types of charts.
Presentation Software: Creating, modifying and enhancing a presentation, Delivering a presentation, Using sound, animation and design templates in presentation.
ICT Fundamentals: Basics of Information Communication Technology, Computer Networks and their advantages, Types of Computer Network, Network Topologies, Basics of Transmission Media
Internet Advanced Services: Downloading/uploading files using ftp/telnet, Chatting, Video conferencing, Online storage of data on Google and Yahoo, Configuring and Using Outlook Express for E-Mail

REFERENCES BOOKS

1. Microsoft Office – Complete Reference – BPB Publication
2. Learn Microsoft Office – Russell A. Stultz – BPB Publication
3. Sinha, P.K. & Sinha, Priti, Computer Fundamentals, BPB

L2 – (II) SOFTWARE LAB – II

Max. Marks: 100 **Pass Marks: 35**
Exam Duration: 3 Hrs **Workload: 3 periods/week**

Presentation Software

1) Make a presentation of College Education System using (a) Blank Presentation, (b) From Design Template, and (c) From Auto Content Wizard.
2) Make a presentation on "Wild Life". Apply various colour schemes, audio effects and animation schemes.

Spread Sheet

1. Generation of Electricity Bill, Telephone Bill, Salary Statement of an Employee and Mark Sheet of a student etc.
2. Apply various mathematical, statistical and financial functions on any worksheet.
3. To compute mean/median/mode in any worksheet.

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COMPUTER AWARENESS (LEVEL – III)

L3 – (I) WEB DESIGNING w.e.f. 2011-2012

Max. Marks: 100 **Pass Marks: 35**
Exam Duration: 3 Hrs **Workload: 3 periods/week**

Note: The examiner will set total 10(ten) questions covering the entire syllabus. Student will attempt any five questions. All questions will carry equal marks.

Scripting Language: Basics of HTML, Basic tags, Document tags, Empty tags, Comment lines, Ordered and unordered lists, Menu list, Absolute links, Relation links in web sites, Table handling, Image and Pictures, Frames, Forms, Animation, Use of colors.

Web authoring tools: Front Page express and explorer, Front Page editor, Application of themes, Formatting of text on web page, Creation of web pages, web sites, hyperlinks, Images, Sound and Video effects, Tables handling, Frame and frame properties, Tasks views, Web wizards, Radio buttons and Command buttons.

REFERENCE BOOKS:

1. C. Xavier, World Wide Web Design with HTML, Tata McGraw Hill
2. NIIT, Basics of Website Design, PHI Learning Private Limited, New Delhi
3. Microsoft Office Frontpage - The Complete Reference, Tata McGraw-Hill

L3 – (II) SOFTWARE LAB – III

Max. Marks: 100 **Pass Marks: 35**
Exam Duration: 3 Hrs **Workload: 3 periods/week**

HTML

1. Create any web page using following HTML tags: (a) Background Colour, (b) Font (Colour, Size, Face), (c) Bold/Italic/Underline, (d) Big/Small, (e) H1, H2, etc., (f) Marquee, (g) Ordered/Unordered Lists
2. Create an employee table and apply various table handling operations on it using HTML.
3. Implement the concept of Frames in a Web page.
4. Design Home page of your Institute and insert images in it.
5. Prepare your CV and link it on the web page.
6. Create a web page and use various sound effects/animation schemes in it.

Front Page

Use Front Page to

1. Create a web page using different text styles.
2. Create a new page using clip art gallery.
3. Create a new page using image from a scanner.
4. Create a web page showing a tourism spots of your area.
5. Create a web page having various table handling operation.

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Paper 301 Hydrology and Oceanography

Maximum Marks: 90
Internal Assessment:10
Time: 3 Hours

Note: There will be nine questions in all covering the entire syllabus. Question No.1 shall be short answer type and compulsory. The candidates have to answer four questions from the rest of eight questions. All questions carry equal marks.

1. The world hydrological cycle and its sub cycles, human impact on hydrological cycle.
2. Precipitation types, intensity and duration of rainfall, geographic and seasonal distribution of rainfall.
3. Measurement of stream flow, hydrograph and its properties, rainfall- runoff relationship.
4. Ground water: origin and types, aquifer parameters, assessment, development and depletion of groundwater.
5. Nature of ocean floor : continental shelf, continental slope deep ocean basin and trenches, bottom topography of the Atlantic, Pacific and Indian Oceans.
6. Salinity: sources, controlling factors and distribution of salinity.
7. Temperature of oceans: Process of heating and cooling, heat budget of oceans, distribution of temperature on oceans.
8. Ocean currents : Meaning, concept and types, origin and factors affecting ocean currents, currents of Atlantic, Pacific and Indian ocean.

Suggested Readings:

1. Chorley, R.J. 1969. Introduction to Physical Hydrology. Methuen, London.
2. Lal, D.S.2007. Oceanography. Sharda Pustak Bhawan, Allahabad.
3. Sharma, R.C. and Vatal, M.1993. Oceanography for Geographers. Chaitanya Publishing House. Allhabad.
4. Todd. D.K.1980, Groundwater Hydrology. John Wiley, New York
5. Tideman, E.M.1996. Watershed Management: Guidelines for Indian Conditions. Omega, New Delhi.
6. Ward, R.C. 1967.Principles of Hydrology.McGraw Hill, New York.

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Paper 302 Regional Geography of World

Maximum Marks: 90
Internal Assessment: 10
Time: 3 Hours

Note: There will be nine questions in all covering the entire syllabus. Question No.1 shall be short answer type and compulsory. The candidates have to answer four questions from the rest of eight questions. All questions carry equal marks.

1. World major physiographic divisions: Mountains, Plains and Plateaus.
2. Major river systems of the world and their drainage basins.
3. World Climate and major climatic regions.
4. Regional Geography of selected countries:
   (i) USA
   (ii) Brazil
   (iii) South Africa.
   (iv) France
   (v) China
   (vi) Australia

5. Classification of countries on the basis of development: Developed and developing countries and their characteristics.

Suggested Readings:

1. Hussain, Majid (2006). World Geography. Rawat Publishers, New Delhi.
2. Pounds and Taylor 1974. World Geography (8th edition), South Western Publishing Company, Ohio.
3. Brown, L.(ed) 1994. State of the World, W.W. Norton and Co., New York.
4. Clavel, Paul (ed) 1998. Introduction to Regional Geography, Blackwell.
5. Buchanan, K.et.al. 1981. China: The land and people, Crown Publishers, New York.
6. Bambrick, S.1994. The Cambridge Encyclopedia of Australia, Cambridge Univesity Press, New York.

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Paper 303(A) General Cartography (Theory)

Maximum Marks: 50
Internal Assessment: 10
Time: 3 Hours

Note: There will be nine questions in all covering the entire syllabus. Question No.1 shall be short answer type and compulsory. The candidates have to answer four questions from the rest of eight questions. All questions carry equal marks.

1. Representation of Climatic data: graphs and diagrams.
   - Line and bar graph, Rainfall deviation diagram, Climograph (Taylor),Hythergraph, Ergo- graph, Isometric and sopleths
2. Representation of Socio-economic Data by diagrams. Types and properties of diagrams:
   One dimensional diagram : Bar diagram: Simple bar, multiple bar and comparative bar.
   Two dimensional diagram : pie diagram proportional circle.
   Three dimensional diagram: Sphere, cube.
3. Distribution maps and diagrams: Choropleth and Dot method
4. Miscellaneous diagrams and graphs: Age and Sex pyramid, Flow diagram and cartogram

Paper 303(B) General Cartography (Practical)

Note: There will be four questions and candidate has to attempt three questions

Maximum Marks:40
Time: 3 Hours

Distribution of Marks:
Exercise: 24
Record File: 8
Viva-voce: 8

References:

1. Monkhouse, F.J. and Wikinson, H.R.: Maps and diagrams. B. I Publications Ltd.
2. Singh, R. L. Elements of Practical Geography. Kalyani Publishers, New Delhi.
3. R.L. Singh and P.K. Dutt 1968, Elements of Practical Geography, Students Friends, Allahabad.
4. Singh Gopal 2004. 4th edition, Map work and Practical Geography, Vikas Publication House.
5. J.P. Sharma Practical Geography, Rastogi Publication, Meerut.

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Paper 401 Geography of Disasters

Maximum Marks: 90
Internal Assessment:10
Time: 3 Hours

Note: There will be nine questions in all covering the entire syllabus. Question No.1 shall be short answer type and compulsory. The candidates have to answer four questions from the rest of eight questions. All questions carry equal marks.

1. Meaning, concept and classification of Hazards and Disasters.
2. Major disasters of the world and disaster profile of India.
3. Tectonic disasters : Occurrence, geographical distribution and impacts of Earthquakes, Tsunamis, Volcanic eruption and Landslides.
4. Hydrological disasters : Occurrence and impact of floods and droughts in India.
5. Climatic disasters : Tropical cyclones, Heavy Precipitation Events-Cloud Burst, Heat and cold waves.
6. Human induced disasters: Epidemics, Industrial Disasters, Nuclear Disasters, wars and terrorism.
7. Preparedness for disasters : Case Study of Cyclones and floods in India
8. Mitigation of disasters : Case study of droughts and earthquakes in India.
9. Post disaster Rehabilitation-Case Study of Tsunami in India.
10. Impacts of disasters on economy and society in India.

Suggested Readings:

1. Gupta, H.K.2003. Disaster Management. University Press, India.
2. Hewitt, K.1977. Regions of Risk: A Geographical Introduction to Disasters. Longman, Harlow.
3. Singh, R.B.2000. Disaster Management. Rawat Publications, New Delhi.
4. Gupta, M.C.2001. Manual of Natural Disaster Management in India. 11PA, New Delhi.
5. Smith, K.C.1996.Environmental Hazards: Assessing Risk and Reducing Disasters. Routledge, London.

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Paper 402 Economic Geography

Maximum Marks: 90
Internal Assessment: 10
Time: 3 Hours

Note: There will be nine questions in all covering the entire syllabus. Question No.1 shall be short answer type and compulsory. The candidates have to answer four questions from the rest of eight questions. All questions carry equal marks.

1. Nature, scope and relationships of economic geography with economics and other branches of social sciences.
2. Classification of economic activities and their impact on environment
3. Types, basis and classification of world natural resources.
4. Conservation and utilization of natural resources.
5. Basis and classification of world agricultural types with special reference to Intensive Subsistence Agriculture, Mediterranean agriculture, Dairy farming and Plantation Agriculture.
6. World production and distribution of energy resources: coal, petroleum and natural gas.
7. Classification of industries and basis of location and development of iron and steel industry and cotton textile industry, major industrial complexes of the world.
8. Geographical factors in the development of trade, Major Ocean trade routes of world.

Suggested Readings:

1. Owen, S. and Owens, P.L. 1991. Environment, Resources and Conservation. Cambridge University Press, New York
2. James, D. W. and Muller, P.O.1988. Economic Geography. John Wiley and Sons, New York.
3. Hartshorne, T. N. and Alexander, J. W. 2009, Economic Geography. New Delhi, Prentice Hall of India.
4. Jones, C.F. and Daockenwald G.G. 1975. Economic Geography. McMillan Company, New York
5. Gautam, A. 2010. Advanced Economic Geography. Sharda Pustak Bhawan, Allahabad.

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Paper 403(A) Morphometric Analysis (Theory)

Maximum Marks: 50
Internal Assessment: 10
Time: 3 Hours

Note: There will be nine questions in all covering the entire syllabus. Question No.1 shall be short answer type and compulsory. The candidates have to answer four questions from the rest of eight questions. All questions carry equal marks.

1. Methods of relief representation:
   (i) Hachure (ii) Hill Shading (iii)Morphographic Method
   (iv) Spot Height (v) Bench Mark (vi) Form Lines
   (vii) Contours
2. Representation of topographic features by contours
   (i) Conical hill (ii) Plateau (iii) Convex slope (iv) Concave Slope
   (v) Escarpment (vi) Cliff (vii) Valley (viii) Water Fall
   (ix) Gorge (x) U-shaped valley

3. Profiles: Serial, Superimposed, Projected, Composite, Longitudinal.
4. Delineation of drainage basin.
5. Basin parameters: stream number and order, drainage density and frequency.

Paper 403(B) Morphometric Analysis (Practical)

Note: There will be four questions and candidate has to attempt three questions

Maximum Marks:40
Time: 3 Hours

Distribution of Marks:
Exercise: 24
Record File: 8
Viva-voce: 8

References:

1. Monkhouse, F.J. and Wikinson, H.R.: Maps and diagrams. B. I Publications Ltd.
2. Singh, R. L. Elements of Practical Geography. Kalyani Publishers, New Delhi.
3. Singh, R.L. and Dutt, P.K. 1968, Elements of Practical Geography, Students Friends, Allahabad.
4. Singh, G. 2004. 4th edition, Map work and Practical Geography, Vikas Publication House.
5. Sharma, J.P. Practical Geography, Rastogi Publication, Meerut.

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Revised Scheme of examination for B.A./B.Sc. (Hons.) – I, II & III (i.e. from Semester – I to VI) w.e.f. session 2010-11.

Time : 3 Hours

B.A/B.Sc.-I year (Semester – I)

Paper No.	Paper Name	B.Sc. (Theory)	B.Sc. (Sessional)	B.A. (Theory)	B.A. (Sessional)
BM-111	Algebra	45 Marks	5 Marks	30 Marks	3 Marks
BM-112	Calculus	45 Marks	5 Marks	30 Marks	3 Marks
BM-113	Solid Geometry	45 Marks	5 Marks	30 Marks	4 Marks

B.A/B.Sc.-I year (Semester – II)

Paper No.	Paper Name	B.Sc. (Theory)	B.Sc. (Sessional)	B.A. (Theory)	B.A. (Sessional)
BM- 121	Number Theory & Trignometry	45 Marks	5 Marks	30 Marks	3 Marks
BM- 122	Ordinary Differential Equations	45 Marks	5 Marks	30 Marks	3 Marks
BM- 123	Vector Calculus	45 Marks	5 Marks	30 Marks	4 Marks

B.A/B.Sc.-II year (Semester – III)

Paper No.	Paper Name	B.Sc. (Theory)	B.Sc. (Sessional)	B.A. (Theory)	B.A. (Sessional)
BM- 231	Advanced Calculus	45 Marks	5 Marks	30 Marks	3 Marks
BM- 232	Partial Differential Equations	45 Marks	5 Marks	30 Marks	3 Marks
BM- 233	Statics	45 Marks	5 Marks	30 Marks	4 Marks

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B.A/B.Sc.-II year (Semester – IV)

Paper No.	Paper Name	B.Sc. (Theory)	B.Sc. (Sessional)	B.A. (Theory)	B.A. (Sessional)
BM- 241	Sequences and Series	45 Marks	5 Marks	30 Marks	3 Marks
BM- 242	Special Functions & Integral Transforms	45 Marks	5 Marks	30 Marks	3 Marks
BM- 243	Programming in C & Numerical Methods	**Theory** 30	**Practical** 20	**Theory** 20	**Practical** 14

Note:- No Sessional in Paper BM-243 in B.A/B.Sc. IInd year (Semester-IV)
Theory : 3 hrs. & Practical : 2 hrs.

B.A/B.Sc.-II year (Semester – V)

Paper No.	Paper Name	B.Sc. (Theory)	B.Sc. (Sessional)	B.A. (Theory)	B.A. (Sessional)
BM- 351	Real Analysis	45 Marks	5 Marks	30 Marks	3 Marks
BM- 352	Groups and Rings	45 Marks	5 Marks	30 Marks	3 Marks
BM- 353	Numerical Analysis	**Theory** 30	**Practical** 20	**Theory** 20	**Practical** 14

Note:- No Sessional in Paper BM-353 in B.A/B.Sc. III year (Semester-V)
Theory: 3 hrs. & Practical: 2 hrs.

Any three of the following:

BM-354:

(i) Probability Theory
(ii) Differential Geometry
(iii) Discrete Mathematics - I
(iv) Mechanics
(v) Mathematical Modeling - I
(vi) Number Theory
(vii) Application of Mathematics in Finance
(viii) Principles of Computer Science – I
(ix) Computational Mathematics Laboratory - I

Note :- B.Sc. (Hons.) : 45 marks for Theory and 5 marks for sessional in each paper.
B.A. (Hons.) : First two papers will be 30 marks for theory & 3 marks for sessional and third paper, whatever will be, of 30 marks for theory & 4 marks for sessional.

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B.A/B.Sc.-III year (Semester – VI)

Paper No.	Paper Name	B.Sc. (Theory)	B.Sc. (Sessional)	B.A. (Theory)	B.A. (Sessional)
BM- 361	Real & Complex Analysis	45 Marks	5 Marks	30 Marks	3 Marks
BM- 362	Linear Algebra	45 Marks	5 Marks	30 Marks	3 Marks
BM- 363	Dynamics	45 Marks	5 Marks	30 Marks	4 Marks

Any three of the following :
BM – 364:

(i) Optimization
(ii) Riemannian Geometry
(iii) Discrete Mathematics - II
(iv) Hydrostatics
(v) Matehmatical Modeling - II
(vi) Combinatorial Number Theory
(vii) Application of Mathematics in Insurance
(viii) Principles of Computer Science - II
(ix) Computational Mathematics Laboratory II

Note:- B.Sc.(Hons.): 45 marks for Theory and 5 marks for sessional in each paper
B.A. (Hons.): First two papers will be 30 marks for theory & 3 marks for sessional and third paper, whatever, will be, of 30 marks for theory & 4 marks for sessional.

Scheme of examination for B.A/B.Sc. (Hons.) – I, II & III (i.e. from Semester – I to VI)

B.A./B.Sc.(Hons.) - I year (Semester – I) **Time : 3 Hours**

Paper No.	Paper Name	B.Sc./Hons. Theory	B.Sc./Hons. Sessional	B.A/Hons. Theory	B.A/Hons. Sessional
BM – 111	Algebra	45 Marks	5 Marks	30 Marks	3 Marks
BM – 112	Calculus	45 Marks	5 Marks	30 Marks	3 Marks
BM – 113	Solid Geometry	45 Marks	5 Marks	30 Marks	4 Marks

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B.A./B.Sc.(Hons.) - I year (Semester – II)

		B.Sc./Hons.	B.Sc./Hons.	B.A/Hons.	B.A/Hons.
Paper No.	**Paper Name**	**Theory**	**Sessional**	**Theory**	**Sessional**
BM – 121	Number Theory And Trignometry	45 Marks	5 Marks	30 Marks	3 Marks
BM – 122	Ordinary Differential Equations	45 Marks	5 Marks	30 Marks	3 Marks
BM – 123	Vector Calculus	45 Marks	5 Marks	30 Marks	4 Marks

B.A./B.Sc.(Hons.) - II year (Semester – III)

		B.Sc./Hons.	B.Sc./Hons.	B.A/Hons.	B.A/Hons.
Paper No.	**Paper Name**	**Theory**	**Sessional**	**Theory**	**Sessional**
BM – 231	Advanced Calculus	45 Marks	5 Marks	30 Marks	3 Marks
BM – 232	Partial Differential Equations	45 Marks	5 Marks	30 Marks	3 Marks
BM – 233	Statics	45 Marks	5 Marks	30 Marks	4 Marks

B.A./B.Sc.(Hons.) - II year (Semester – IV)

		B.Sc./Hons.	B.Sc./Hons.	B.A/Hons.	B.A/Hons.
Paper No.	**Paper Name**	**Theory**	**Sessional**	**Theory**	**Sessional**
BM – 241	Sequences and Series	45 Marks	5 Marks	30 Marks	3 Marks
BM – 242	Special Functions And Integral Transforms	45 Marks	5 Marks	30 Marks	3 Marks
BM – 243	Programming in C & Numerical Methods	Theory 30 Marks + Practical 20 Marks, no Sessional (B.Sc.) Th.-3 hrs. & P-2 hrs. Theory 20 Marks + Practical 14 Marks, no Sessional (B.A.)			

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B.A./B.Sc.(Hons.) – III year (Semester –V)

		B.Sc./Hons.	B.Sc./Hons.	B.A/Hons.	B.A/Hons.
Paper No.	**Paper Name**	**Theory**	**Sessional**	**Theory**	**Sessional**
BM – 351	Real Analysis	45 Marks	5 Marks	30 Marks	3 Marks
BM – 352	Groups and Rings	45 Marks	5 Marks	30 Marks	3 Marks
BM – 353	Numerical Analysis	Theory 30 Marks + Practical 20 Marks, No Sessional (B.Sc.) Th.- 3 hrs. & P-2 hrs. Theory 20 Marks + Practical 14 Marks, No Sessional (B.A.)			

Any three of the following:

BM – 354:

(i) Probability Theory
(ii) Differential Geometry
(iii) Discrete Mathematics - I
(iv) Mechanics
(v) Mathematical Modeling - I
(vi) Number Theory
(vii) Application of Mathematics in Finance
(viii) Principles of Computer Science – I
(ix) Computational Mathematics Laboratory - I

Note:- B.Sc. (Hons.): 45 Marks for Theory and 5 Marks for sessional in each paper.
B.A. (Hons.): First two papers will be 30 marks for theory & 3 marks for sessional and third paper, whatever will be, of 30 marks for theory & 4 marks for sessional.

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B.A./B.Sc.(Hons.) – III year (Semester –VI)

Paper No.	Paper Name	B.Sc./Hons. Theory	B.Sc./Hons. Sessional	B.A/Hons. Theory	B.A/Hons. Sessional
BM – 361	Real & Complex Analysis	45 Marks	5 Marks	30 Marks	3 Marks
BM – 362	Linear Algebra	45 Marks	5 Marks	30 Marks	3 Marks
BM – 363	Dynamics	45 Marks	5 Marks	30 Marks	4 Marks

Any three of the following:

BM – 364:

(i) Optimization
(ii) Riemannian Geometry
(iii) Discrete Mathematics - II
(iv) Hydrostatics
(v) Matehmatical Modeling - II
(vi) Combinatorial Number Theory
(vii) Application of Mathematics in Insurance
(viii) Principles of Computer Science - II
(ix) Computational Mathematics Laboratory II

Note:- B.Sc. (Hons.): 45 Marks for Theory and 5 Marks for sessional in each paper.
B.A. (Hons.): First two papers will be 30 Marks for theory & 3 Marks for sessional and third paper, whatever, will be, of 30 Marks for theory & 4 Marks for sessional.

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Semester - V

BMH-354 opt (i) Probability Theory

Maximum Marks 45+5= 50
Time: 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

SECTION-1

Notion of Probability: Random Experiment, sample space, axiom of probability, elementary properties, equally likely outcome problems.

SECTION-II

Random Variable: concept, cumulative distribution function, discrete and continuous random variable, expectations, mean variance, moment generating function.

SECTION-III

Discrete distributions: Bernoulli, binomial, geometric and poisson. Continuous distributions: uniform, exponential, gamma and normal. Conditional probability and conditional expectations, Bayes theorem independence.

SECTION-IV

Computing expectation by conditioning; some applications – a list model, a random graph, laya's urn model. Bivariate random variables : joint distribution, joint and conditional distributions, the correlation, coefficient.

REFERENCES:

1. S.M. Ross, Introduction to Probability Models (Sixth Edition) Academic Press. 1997.
2. I.Blake, An Introduction to Applied Probability, John Wiley and sons, 1979.
3. J.Pitman, Probability, Narosa, 1993.

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Semester – V

BMH-354 opt. (ii) Differential Geometry

Maximum Marks 45+5= 50
Time: 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

Section – I

Local theory of curves: Tangent, Principal normal, curvature, Binormal, Torsion, Serret-Frenet for mulae. Centre of curvature, spherical curvature, Helices, spherical indicative of tangent.

Section – II

Involutes and evolutes of curves, Bertrand curves, surface, Tangent and normal envelopes, characteristics, edge of regression and Developable surfaces.

Section – III

First fundamental form, Direction on a surface, second order magnitude, curvature of normal section, Meunier's theorem.

Section – IV

Principal direction and curvatures, First and second curvature, Gacessian curvature, Euler's theorem, Gauss formula, Gacess-Bonnet formula, equation of Geodesic, Torsion of Geodesic.

Books Recommended:

Scope as in relevant portion of chapters I-VI of Book, C.E. Weather burn, Differential Geometry on three dimensions. The English language Book society – Cambridge University Press – 1971.

REFERENCES:

1. J.A. Thorpe, Introduction to Differential Geometry, springer-verlag.
2. B.O' Neill. Elementary Differential Geometry, Academic Press, 1966. S.St.

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Semester - V

BMH-354 opt (iii) Discrete Mathematics - I

Maximum Marks 45+5=50
Time: 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

Section – I

Sets, proposections, Basic logical operations. Logical equivalence involving tautologies and contradictions, condition proposections, rules of inference.
Relation and functions. Banary relation equivalence relations and partions. Partially ordered sets. Chains and Antichains. Principle of inclusion and exclusion. Pigeon hole principle and its applications. Principle of mathematical induction.

Section – II

Numeric functions and asymptotic behaviour of numeric functions. Generating functions. Recurrence relations. Linear recurrence relations with constant coefficients. Homogeneous solutions, particular solutions and total solutions, solution by the method of generating functions. Sorting algoreithms.

Section – III

Lattices, sublattices. Principle of duality, Lattice as an algebraic system. Complete and incomplete lattices. Homomorphism and isomorphism of lattices. Order preserving and order reversing maps of lattices. Distributive lattices. Modular lattices. Sublattices of the form I[a,b], a>b. The theorem I[av,b,b]~ I[a,a^b]. The direct product of lattices.

Section – IV

Complemented lattices. Boolean algebras, Boolean algebra as Boolean ring and conversely a Boolean ring as a Boolean algebra. Finite Boolean algebras. Fundamental theorem of Boolean algebra. Boolean functions and Boolean expressions. (Polynomials). Application of Boolean algebra to switching circuits.

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Semester – V

BMH 354 opt. (iv) Mechanics

Maximum Marks 45+5=50
Time: 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

Section – I

Moments and products of inertia. The Momental ellipsoid Equimomental systems. Principal axes.

Section – II

'D' Alembert's principle. The general equations of motion of a rigid body. Independence of the motions of translation & Rotation. Motion about a fixed axis. The compound pendulum.

Section – III

Motion in two dimension, finite forces, kinetic energy in two dimensions. Moment of momentum in two dimension, motion in two dimension, impulsive forces.

Section – IV

Conservation of linear and angular momentum, conservation of energy, language's equations in generalized coordinates, initial motion.

REFERENCES :

1. S.L. Loney, An elementary Treatise on the Dynamics of a Particle and of rigid bodies, Cambridge University Press, 1956.
2. A.S. Ramsey, Dynamics, Part I, Cambridge University Press, 1973.

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Semester – V

BMH 354 opt. (v) Mathematical Modeling – I

Maximum Marks 45+5=50
Time: 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

Section – I

The process of Applied Mathematics: Mathematical modeling, need techniques classification and illustrative.

Section – II

Mathematical modeling through ordinary differential equation of first order. Mathematical modeling in population dynamics, mathematical modeling of epidemic and compartment models through system of ordinary differential equations.

Section – III

Mathematical modeling in economics, in medicine, Arms race, Battle, international trade and dynamics through ordinary differential equations. Mathematical modeling through ordinary differential equation of record order.

Section – IV

Mathematical modeling through difference equations: need Basic theory, Economics and finance, population dynamics and Genetics, probability theory and examples.

Books Recommended:

J.N. Kapur: Mathematical modeling Wiley Eastern limited, 1990
Relevant position of Scope arvid chapter I & V

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Semester – V

BMH 354 opt. (vi) Number Theory

Maximum Marks 45+5=50
Time: 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

Section – I

Diophantine equations, Equation ax+by = c, simultaneous linear equations, Pythagorean triangles, Assorted examples.

Section – II

Farey sequences, Rational approximations, Irrational numbers.

Section – III

Simple continued fractions, Euclidean algorithm, uniqueness, infinite continued fractions, irrational numbers, approximations to irrational numbers.

Section – IV

Best possible approximations, periodic continued fractions. Pell's equation, Numerical computation.

Recommended Text :

1. I. Niven, S.H. Zuckerman, and L.H. Montgomery, An Introduction to the theory of Numbers, John Wiley, 1991.

REFERENCES :

1. David m. Burton, Elementary Number Theory, Wm. C. Brown Publishers, Dubuque, Lowa, 1989.
2. K. Ireland and M. Rosen, A Classical Introduction to Modern Number Theory. GTM Vol. 84, Springer – Verlag, 1972.

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Semester - V

BMH 354 Opt.(vii) Application of Mathematics in Finance

Maximum Marks 45+5=50
Time : 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

SECTION-I

Financial Management-A Overview. Nature and Scope of Financial Management. Goals of Financial Management and Main Decisions of Financial Management.

SECTION-II

Difference between Risk, Speculation and Gambling. Time value of Money-Interest Rate and Discount Rate.
Present Value and Future Value-Discrete case as well as Continuous Compounding Case.
Annuities and its kinds.

SECTION-III

Meaning of return. Return as Internal Rate of return (IRR). Numerical Methods like Newton Raphson Method to calculate IRR. Measurement of Returns under uncertaining situations. Meaning of risk. Difference between risk and uncertainty.

SECTION-IV

Types of risks. Measurement of risk. Calculation of security and Port-folio Risk and Return – Markowitz Model. Sharpe's Single Index Model-Systematic Risk and Unsystematic Risk. Taylor Series and Bond Valuation. Calculation of Duration and Convexity of bonds. Financial Derivatives- Futures. Forward. Swaps and Options. Call and Put Options.

REFERENCES:

1. Aswath Damodaran, Corporate Finance-Theory and Practice, John Waley and Sons, Inc.
2. John C. Hull, Options, Futures and Other Derivatives, Prentice Hall of India Pvt. Ltd.
3. Sheldon M. Ross, An Introduction to Mathematicsal Finance, Cambridge University Press.

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Semester – V

BMH 354 opt. (viii) Principles of Computer Science-I

Maximum Marks 30+3+17=50
Time : 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

SECTION-I

Data Storage-Storage of Bits. Main Memory. Mass Storage. Coding Information of Storage. The Binary System. Storing Integers, Storing Fraction, Communication errors.

SECTION-II

Data Manipulation- The Central processing Unit. The Stored-Programme Concept. Programme Execution. Other Architectures. Arithmetic/Logic Instructions. Computer-Peripheral Communication.

SECTION-III

Operating System and Networks- The Evolution of Operating System. Operating System Architecture. Co-ordinating the machine's activities.
Handling competition among process. Networks. Networks protocol.

SECTION-IV

Algorithms- The Concept of an Algorithm. Algorithm Representation.
Algorithm Discovery. Iterative Structures. Recursive Structures. Efficiency and Correctness. (Algorithms to be implemented in C^{++}).

REFERENCES:

1. J.Glen Brookshear, Computer Science: An Overview, Addition Wesley.
2. Stanely B.Lippman, Josee Lojoie, C^{++} Primer (3^{rd} Edition), Addison-Wesley.

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Semester - V

BMH 354 opt. (ix) Computational Mathematics Laboratory-I

Maximum Marks 25+25=50
Time : 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

The student is expected to familiarize himself/herself with popular softwares for numerical computation and optimization. Real life problems requiring knowledge of numerical algorithms for linear and non-linear algebraic equations, Eigen value problems, Finite Difference Methods, Inter-polation, Differentiation, Integration Ordinary differential equations etc. should be attempted. Capabilities to deal with linear, integer and non-linear optimization problems need to be developed. The objective of such a laboratory is to equip students to model and stimulate large-scale systems using optimization modeling languages (the concerned teacher is expected to provide the necessary theoretical background before the student does the corresponding practical). To this end softwares like MATLAB and LINDO.

SECTION-I

Plotting of Functions.

SECTION-II

Matrix operations, vector and matrix manipulations, matrix function. Sparse matrices-Iterative method for sparse linear-equations, Eigen values of sparse matrices, Game of life.

SECTION-III

Data analysis and curve fitting. Use of FFT algorithm.

SECTION-IV

Numerical integration, Roots finding, Simultaneous linear equation.

REFERENCES :

1. MATLAB- High performance numeric computation and visualization software: User's guide.
2. MATHEMATICA-Stephen Wolfram, Cambridge.
3. Introduction to operations research, F.S. Hiller and G.J. Liberman.
4. Optimization modeling with LINDO: Linus Scharge.

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Semester – VI

BMH-364 Opt (i) Optimization **Maximum Marks 45+ 5=50**
Time : 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

SECTION-I

Functions of random variables: sum of random variables, the law of large numbers and central limit theorem, the approximation of distributions. Uncertainly, information and entropy, conditional entropy, solution of certain logical problems by calculating information.

SECTION-II

The linear programming problem. Problem formulation. Linear programming in matrix notation. Graphical solution of linear programming problems.

SECTION-III

Some basic properties of convex sets, convex functions and concave functions. Theory and application of the simplex method of solution of a linear programming problem.

SECTION-IV

Charne's M-technique. The two phase method. Principle of duality in linear programming problem. Fundamental duality theorem. Simple problems. The transportation and Assignment problems.

REFERENCES:

1. A.M. Yagolam and I.M.Yagolam, Probability and Information, Hindustan Publishing Corporation, Delhi, 1983.
2. Mokhtar S.Bazaraa, John J. Jarvis and Hanif D. Shirali, Linear Programming and Network flows, John Wiley & Sons, 1990.
3. G. Hadley, Linear Proramming, Narosa Publishing House, 1995.
4. S.I. Gass, Linear Programming: Methods and Applications (4th Edition) Mc Graw-Hill, New York, 1975. Kanti Swaroop, P.K. Gupta and Manmohan, Operations Research, Sultan Chand and sons, New Delhi, 1998.

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Semester - VI

BMH 364 opt. (ii) Riemannian Geometry

Maximum Marks 45+ 5=50
Time : 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

Section – I

Summalian convention, Riemannia metric; Fundamental Tensor, Associate covariant and contravariant vectors, Principal directions for a symmetric covariant tensor of the record order.

Section – II

The clrisstoffe symbols, covariant derivation of a covariant vector and contravariant vector, covariant derivative of a Tensors, covariant differentiation of sums and products.

Section – III

Curvature of a curve, Geodesics, Differential equation of geodesics, geodesics coordinate, geodesics form of the linear element, geodesics in Euclideon space. Substance of a Riemannian manifold.

Section – IV

Rice, co-efficient of rotation, Geodesic congruences, curvature Tensor, identity of Bianchi.

RECOMMENDED BOOKS :

Relevant portion of chapter I-VI of Book : C.E. Weatherburn and the Tensor Calculus, Radha Publication Hosue, Calcutta.

REFERENCES :

J.A. Thorpe, Introduction to Differential Geometry, springer-verlag.
B.O' Neill. Elementary Differential Geometry, Academic Press, 1966. S.St.

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Semester – VI

BMH 364 opt. (iii) Discrete Mathematics - II

Maximum Marks 45+ 5=50
Time: 3 Hours

Section – I

Graphs, Finite, Infinite and simple graphs. Incident vertices and edges. Degree of a vertex. Isolated and pendent vertices. Isomorphism of graphs. Subgraphs, walks, paths and circuits in graphs connected and disconnected graphs. Components of a disconnected graph. Euler and Hamiltonkan circuits and graphs. Konisberg senan bridges problem. Travelling salesman problem. Trees Pendent vertices in a tree, Roited and binary tree. Spanning trees Rank and of a graph. Fundamental circuits.

Section – II

Cut sets. Fundamental cut sets. Fundamental circuits and cut sets. Connectivity Planar graphs. Kurtowski first and second graph. Euler formula on planar graphs Adjacency matrix of a graph and its properties.

Section – III

Computability and formal languages. Russell paradox and none computability. Ordered sets languages. Phrase structure grammars, type of Grammers and languages. Finite state machines. Infinite and output strings. Equivalence of finite state machines. Type – 1, Type – 2, Type – 3 grammar

Section – IV

Finite state, automata finite state, acceptor and their construction under a given condition. Non-deterministic finite state automation. The equivalence of DFSA and NDFSA. Moore machine and mealy machines and their equivalence, Turing machine. Regular grammar andfinite state automation.

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Semester – VI

BMH 364 opt. (iv) Hydrostatics

Maximum Marks 45+ 5=50
Time : 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

Section – I

Pressure equation. Condition of equilibrium. Lines of force. Homogeneous and Heterogeneous fluids. Elastic fluids. Surface of equal pressure.

Section – II

Fluid at rest under action of gravity. Rotating fluids. Fluid pressure on plane surfaces. Centre of pressure. Resultant pressure on curved surfaces.

Section – III

Equilibrium of floating bodies. Curves of buoyancy. Surface of buoyancy. Stability of equilibrium of floating bodies. Meta center.

Section – IV

Work done in producing a displacement. Vessel containing liquid. Gas Laws. Mixture of gases. Internal energy. Adiabatic expansion. Work done in compressing a gas. Isothermal atmosphere. Connective Equilibrium.

REFERENCES :

1. W.H. Besant and A.S. Ramsey, A Treatise on Hydromechanics, ELBS and G.Bell and Sons Ltd., London.

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Semester – VI

Maximum Marks 45+5=50
Time: 3 Hours

BMH 364 opt. (v) Mathematical Modelling – II

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

Section – I

Mathematical modeling, through partial differential equation: PDE models, Mass-Balance equation, variational/principles, Probability generating function, model for traffic flow, nature & Boundary conditions.

Section – II

Mathematical modeling through graphs : Modeling through graphs, Mathematical models in terms of Directed graphs, signed graphs, weighted Digraph and un-oriented graphs.

Section – III

Mathematical modeling through functional, integral equations, calculus of variations and dynamic programming (Optimization principles and Techniques).

Section – IV

Mathematical modeling through mathematical programming (linear and non-linear), maximum principle and maximum entropy principle.

Books Recommended:

Relevant book of the chapter (6)-(10) of Book J.N. Kapur, Mathematical Modelling, Wiley Eastern Ltd., 1990

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Semester – VI

BMH 364 opt. (vi) Combinatorial Number Theory

Maximum Marks : 45+5 = 50
Time : 3 Hours

Note :- The examiner is requested to set ten questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

SECTION – I

Functions of random variables: sum of random variables, the law of large numbers and central limit theorem, the approximation of distributions. Uncertainly, information and entropy, conditional entropy, solution of certain logical problems by calculating information.

SECTION – II

The linear programming problem. Problem formulation. Linear programming in matrix notation. Graphical solution of linear programming problems.

SECTION – III

Some basic properties of convex sets, convex functions and concave functions. Theory and application of the simplex method of solution of a linear programming problem.

SECTION – IV

Charne's M-technique. The two phase method. Principle of duality in linear programming problem. Fundamental duality theorem. Simple problems. The transportation and Assignment problems.

REFERENCES :

1. A.M. Yagolam and I.M. Yagolam, Probability and Information, Hindustan Publishing Corporation, Delhi, 1983.
2. Mokhtar S. Bazaraa, John J. Jarvis and Hanif D. Shirali, Linear Programming and Network flows, John Wiley & Sons, 1990.
3. G.Hadley, Linear Programming, Narosa Publishing House, 1995.
4. S.I. Gass, Linear Programming: Methods and Applications (4th Edition) Mc Graw-Hill, New York, 1975. Kanti Swaroop, P.K. Gupta and Manmohan, Operations Research, Sultan Chand and sons, New Delhi, 1998.

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Semester -VI

BMH 364 opt. (vii) Application of Mathematics in Insurance

Maximum Marks 45+5=50
Time : 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

SECTION-I

Insurance Fundamentals-Insurance defined. Meaning of Loss. Chances of Loss, peril, hazard and proximate cause in insurance. Costs and benefits of insurance to the society and branches of insurance-life insurance and various types of general insurance. Insurable loss exposures feature of a loss i.e. ideal for insurance.

SECTION-II

Life Insurance Mathematics-Construction of Mortality Tables. Computation of premium of Life Insurance for a fixed duration and for the whole life.

SECTION-III

Determination of claims for General Insurance-Using Poisson Distibution and Negative Binomial Distribution-the Polya Case.

SECTION-IV

Determination of the amount of Claims in General Insurance-Compound Aggregate claim model and its properties and claims of re-insurance. Calculation of a compound density function. F-Recursive and approximate formulae for F.

REFERENCES:

1. Mark S. Dorman, Introduction to Risk Management and Insurance, Prentice Hall, Englwood Cliffs, New Jersey.
2. C.D. Daykin, T.Pentikainen and M.Pesonam, Practical Risk Theory for Actuaries, Chapman and Hall.

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Semester – VI

BMH 364 opt. (viii) Principles of Computer Science-II

Maximum Marks 30+3+17=50
Time : 3 Hours

Note: -The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

SECTION-I

Programming languages-Historical Perspective. Traditional Programming Concepts, Program Units. Language Implementation. Parallel Computing. Declarative Computing. Software Engineering- The Software Engineering Discipline. The Software Life Cycle. Modularity.

SECTION-II

Development Tools and Techniques. Documentation. Software Ownership and Liability. Data Structures-Array. Lists. Stacks. Queues. Trees. Customised Data Types. Object Oriented Programming. File Structure-Sequential Files, Text Files.

SECTION-III

Data Base Structure- General issues. The Layered Approach to Data Base Implementation. The Relational Model. Object-Oriented Data Base. Maintaining Data base Integrity. E-R Models.

SECTION-IV

Artificial Intelligence-Some Philosophical Issues. Image Analysis. Reasoning. Control System Activities. Using Heuristics. Artificial Neural Networks. Applications of Artificial Intelligence. Theory of Computation-Turing machines.

REFERENCES:

1. J.Glen Brookshear, Computer Science: An Overview, Addition Wesley.
2. Stanely B.Lippman, Josee Lojoie, C^{++} Primer (3^{rd} Edition), Addison-Wesley.

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Semester - VI

BMH 364 opt. (ix) Computational Mathematics Laboratory-II

Maximum Marks 25+25=50
Time : 3 Hours

Note: - The examiner is requested to set nine questions in all, selecting two questions from each section and one compulsory question consisting of five parts distributed over all the four sections. Candidates are required to attempt five questions, selecting at least one question from each section and the compulsory question.

The student is expected to familiarize himself/herself with popular softwares for numerical computation and optimization. Real life problems requiring knowledge of numerical algorithms for linear and non-linear algebraic equations, Eigen value problems, Finite Difference Methods, Inter-polation, Differentiation, Integration Ordinary differential equations etc. should be attempted. Capabilities to deal with linear, integer and non-linear optimization problems need to be developed. The objective of such a laboratory is to equip students to model and stimulate large-scale systems using optimization modeling languages (the concerned teacher is expected to provide the necessary theoretical background before the student does the corresponding practical). To this end softwares like MATLAB and LINDO.

SECTION-I

Non-linear equations and optimization functions. Differential equations.

SECTION-II

2-D Graphics and 3-D Graphics-general purpose graphics functions, color maps and color controls.

SECTION-III

Examples: Number theory, Picture of an FFT, Function of a Complex variable, Chaotic Motion in 3-D.

SECTION-IV

Linear Programming, Integer Programming and Quadratic Programming-Modeling and simulation techniques.

REFERENCES :

1. MATLAB- High performance numeric computation and visualization software: User's guide.
2. MATHEMATICA-Stephen Wolfram, Cambridge.
3. Introduction to operations research, F.S. Hiller and G.J. Liberman.
4. Optimization modeling with LINDO: Linus Scharge.

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SYLLABUS
&
Scheme of Examination
BSc Industrial Chemistry
Third Year

Fifth Semester

Theory	Max. Marks Written + I.A.	Time allowed for Exam
Paper-I	45+5	3 Hours
Paper-II	45+5	3 Hours

Sixth Semester

Theory	Max. Marks Written + I.A.	Time allowed for Exam
Paper-I	45+5	3 Hours
Paper-II	45+5	3 Hours

Practical

Paper-III	90+10	6 Hours (Spread over two sessions)

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Fifth Semester

Paper –I Theory **Max Marks 45+5** **3 Hours**

Note: Nine Question will be set section wise, three from each section and candidate have to attempt five question in all selecting at least one question from each section. All questions carry equal marks.

Section-I

Industrial Chemical Analysis

Sampling procedure, sampling 0f bulk materials, techniques of sampling solids, liquids and gases. Collecting and processing data.

Limitations of analytical methods, accuracy, precision, classification of errors and their minimization. Significant figures and computations.

Section –II

Chromatography

Principle and classification of chromatographic method, paper chromatography, Thin layer chromatography, HPLC and gas chromatography.

Section-III

Atomic Spectroscopy

Principle, types of instruments, interferences in flame photometry, application of atomic absorption and flame emission spectroscopy.

Spectrophotometer

Principle, instrumentation for absorption measurements, qualitative and quantitative applications.

Nephelometry

Principle instrumentation, factors affecting measurements, applications.

Books Recommended

1. Vogel's Text book of Quatitative Chemical Analysis, G.H. Jeffery, J. Basset, J. Mendham and R.C.Denney, English Language Book Society/ Longman
2. Study Material in vocational subject, Industrial Chemistry (UGC Sponsored)
3. Handbook of instrumental techniques for Analytical chemistry, F.A. Settle, Prentice Hall.
4. Quantitative Inorganic Analysis, K. Kodama Interscience Publishers, New York.

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Fifth Semester

Paper –II Theory **Max Marks 45+5**

3Hours

Note: Nine Question will be set section wise, three from each section and candidate have to attempt five question in all selecting at least one question from each section. All questions carry equal marks.

Section-I

Introduction to Pharmacopoeias

Dosage Forms: Dosage forms and their classification on the basis of physical state with important characteristics: Solid Dosage forms including powders, capsules, cachets, Pills, tablets and suppositories. Liquid dosage forms including collodions, aromatic waters, inhalations, injections, lotions, mouth washes, nasal drops and ophthalmic drops.

Sterilization: Need for sterilization, sterilization by heat processes viz sterilization by dry heat using hot air oven, flaming and I.R. radiations. Moist heat sterilization processes including autoclaving, heating with bactericide, Tantalization or fractional sterilization.

Section- II

Legal aspects of drugs: Important FDA Schedules

Pharmaceutical quality testing: Sterility testing, Pyrogen testing, glass testing.

Pharmaceutical excipients : Various type of excipients used for tablets, capsules, emulsions and suspensions.

Section-III

Phytochemicals: Introduction to crude drugs, cultivation and storage of medicinal plants.

Chemical constituents of plants and uses including carbohydrates, glycosides, fats, oils, waxes, terpenoids, steroids, alkaloids, amino acids, and tannins.

Books Recommended

1. A text book of pharmaceutics- Nirali Prakashan.
2. Study Material in vocational subject, Industrial Chemistry (UGC Sponsored)

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Sixth Semester
Paper –I Theory **Max Marks 45+5** **3 Hours**

Note: Nine Question will be set section wise, three from each section and candidate have to attempt five question in all selecting at least one question from each section. All questions carry equal marks.

Section-I
Solvent Extraction : General discussion, factors favoring solvent extraction, classification of solvent extraction systems, applications of solvent extraction.
pH, buffer solutions, importance of pH and its measurement.
Section-II
Monograph of tablet: Hardness test, Friability test, Dissolution rate, and disintegration test.
Amperometric titration: Theory, types and applications of amperometric titration.
Polarimetry: Principle, instrumentation and applications of polarimetry.
Section-III
Titrimetric Analysis: Theoretical considerations, standard solutions, primary standards, Secondary standards, neutralization indicators, mixed indicators, universal indicators, neutralization curves, choice of indicator in neutralization reactions, complexation titrations, metal ion indicators, precipitation titrations.

Books Recommended

1. Vogel's Text book of Quatitative Chemical Analysis, G.H. Jeffery, J. Basset, J. Mendham and R.C.Denney, English Language Book Society/ Longman
2. Study Material in vocational subject, Industrial Chemistry (UGC Sponsored)
3. Indian pharmacopoeia/ British pharmacopoeia

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Sixth Semester

Paper –II Theory Max Marks 45+5 3 Hours

Note: Nine Question will be set section wise, three from each section and candidate have to attempt five question in all selecting at least one question from each section. All questions carry equal marks.

Section-I

Drugs: classification of various types with examples: analgesics, cardiovascular agents, anti psychoactive agents

Synthesis of bulk drugs

Antimicrobial- Chloromphenicol, Isoniazid

Analgesic- Salicylic acids and its derivatives, Ibuprofen

Barbiturate- Pentobarbitol

Blockers- Propranprol, Atenolol

Section-II

Fermentation Processes: General principle of fermentation processes and fermenters

Manufacturing of anti biotics: Penicillin G, Vitamin B_{12} tetracyclines.

Synthesis of vitamins: vitamin-A, Vitamin-B_6, Vitamin- C

Section-III

Pharmaceutical excipients: Various Types

Capsule shell making agent (gelatin)

Binder and adhesives (acacia)

Antioxidant (Butylated hydroxy anisole)

Viscosity builder (carboxy methyl cellulose sodium)

Preservatives (Phenyl mercuric nitrate)

Sweetners (Mannitol)

Emulsifying agents and coating agents

Books Recommended

1. Medicinal chemistry : Ashutoshkar (Vol. I & II)
2. Medicinal chemistry : S.N. Pandeya
3. Study Material in vocational subject, Industrial Chemistry (UGC Sponsored)

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Sixth Semester

Paper-III Practical **Max Marks 90+10*** **6 Hours**

Note: The practical is spread over in two sessions. In the first session the candidate have to perform two experiments from section-I, (one from the first four and second from the next seven). In the second session the candidate have to perform one experiment from section-II.

Section-I

1. To prepare a sample of 2,4,6 tribromo aniline
2. To prepare a sample of anthranilic acid from phthalic anhydride
3. To prepare a sample of m-dinitrobenzene from benzene
4. To prepare m-nitroaniline from nitrobenzene
5. To prepare a sample of chloroform spirit
6. To prepare a sample of benzaldehyde spirit
7. To prepare a sample of chloroform water
8. To prepare a sample of camphor water
9. To prepare a sample of cetrimide cream
10. To prepare a sample of zinc sulphate lotion
11. To perform the monograph of aspirin tablet

Section-II

1. To estimate the percentage purity of given amino acid
2. Estimate the amount of aspirin in the given tablet
3. To determine the strength of given phenol solution by bromination method
4. To determine the strength of given aniline solution by bromination method
5. To determine the percentage purity of given sample of formaldehyde
6. To determine the iodine value of given oil sample
7. To determine the saponification value of oil sample

Distribution of marks

Experiment No. 1 (from section-I)	**25 Marks**
Experiment No. 2 (from section-I)	**15 Marks**
Experiment No. 3 (from section-II)	**25 Marks**
Lab Record	**15 Marks**
Viva Voce	

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B.A. (General) (Vocal)

Semester – III

Paper – I (Theory)

Time: 3 hours

Max. marks: 40+10 (Int. Assessment)

Note: The question paper will be divided into 3 sections comprising of 10 questions in all. The candidate will be required to attempt 5 questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section - A

(a) Historical study and detailed description of the ragas prescribed in the syllabus.

(b) Ability to write the notations of vilambit and drut khyals in the following ragas:
1. Chhayanat 2. Gaur Sarang 3. Jaijaiwanti 4. Mallkauns

(c) Ability to write thekas with dugun and chaugun in the following talas:
1. Ada Chautal 2. Deepchandi

Section – B

(a) Detailed study of following shailies:
1. Dhrupad 2. Dhamar 3. Khyal 4. Thumri 5. Tappa

(b) Short notes on the following:
Avirbhav-Tirobhav, Nayak-Nayaki, Jaties of Raga.

(c) Placement of swaras on shruti by Bharat, Matang and Lochan.

Section – C

(a) Role of science in promoting educational and cultural aspects of music during modern period.

(b) Contribution towards music by the following:
1.Ustad Bade Gulam Ali Khan 2. Pt. Malikarjun Mansoor.

Paper – II (Practical)

Max. marks: 50 **Time: 20-30 minutes**

Note: Candidate will not be allowed to sing with harmonium in the examination. Only tanpura should be used for accompaniment.

(a) Two vilambit khyals with extempore alaps and tans in each of the ragas as prescribed in the syllabus.

(b) One drut khyal with alap, bol alap, tans and bol tans in all the prescribed ragas. Out of the four drut khyals one may be set to any tala other than teental.

(c) One tarana in any of the prescribed ragas.

(d) Ability to demonstrate ada chautal and deepchandi with reciting bols by hand in thah and dugun layakaries and ability to play chautal in tabla.

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Semester – IV

Paper – I (Theory)

Time: 3 hours

Max. marks: 40+10 (Int. Assessment)

Note: The question paper will be divided into 3 sections comprising of 10 questions in all. The candidate will be required to attempt 5 questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section - A

(a) Historical study and detailed description of the ragas prescribed in the syllabus.

(b) Ability to write the notations of vilambit and drut khyals in the following ragas:

1. Bhairav 2. Bhairavi 3. Khamaj 4. Kedar

(c) Ability to write thekas with dugun in the following talas:

2. Tilwara 2. Tivra

Section – B

(a) Detailed study of following shailies:

1. Taan 2. Chaturang 3. Tiravat 4. Geet 5. Bhajan

(b) Short notes on the following:

Gram, Murchhana, Tanpura and Shayak Naad.

Placement of Swaras on shruties by Pandit Vitthal and Ramamatya.

Section – C

(a) Contribution towards music by the following:

1.Pt. Bhimsen Joshi 2.Ustad Allaudin Khan 3. Ustad Faiyyaz Khan

(b) History of music in medieval period.

Paper – II (Practical)

Max. marks: 50 **Time: 20-30 minutes**

Note: Candidate will not be allowed to sing with harmonium in the examination. Only tanpura should be used for accompaniment.

(a) One drut khyal with alap, bol alap, tans and bol tans in all the prescribed ragas. Out of the four drut khyals one may be set to any tala other than teental.

(b) Two vilambit khyals with extempore alaps and tans in each of the ragas as prescribed in the syllabus.

(c) One dhrupad with dugun, tigun and chaugun or one dhamar with dugun in prescribed ragas.

(d) Ability to demonstrate tilwara and tivra with reciting bols by hand in thah and dugun layakaries and ability to play ektal in tabla.

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B.A. (General) (Sitar)
Semester – III

Paper – I (Theory)

Time: 3 hours
Max. marks: 40+10 (Int. Assessment)

Note: The question paper will be divided into 3 sections comprising of 10 questions in all. The candidate will be required to attempt 5 questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section - A

(a) Historical study and detailed description of the ragas prescribed in the syllabus:
1. Chhayanat 2. Jaijaiwanti 3. Bhairav 4. Bhairavi

(b) Ability to write the notations of maseetkhani gat and rajakhani gat in the ragas and thekas with chaugun in the talas as prescribed in the syllabus:
1. Chhayanat 2. Jaijaiwanti 3. Bhairav 4. Bhairavi

(c) Ability to write thekas with dugun and chaugun:
1. Tivara 2. Deepachandi

Section – B

(a) Short notes on the following:
1. Parmel Praveshak Raag 2. Alpatva-Bahutva
3. Maseetkhani gat 4. Rajakhani gat 5. Gram

(b) Swayambhu naad

(c) Method of tunning of your instrument and description of the instrument.

Section – C

(a) Different styles of sitar vadan.

(b) Contribution towards music by the following:
1.Ustad Abdul Haleem Jafar Khan 2. Pt. Pannalal Ghosh

(c) Detailed description of the following instruments:
1. Santoor 2. Guitar

Paper – II (Practical)

Max. marks: 50 **Time: 20-30 minutes**

(a) Two maseetkhani gat with alap, jor, toras and jhalas in any on of the prescribed ragas.

(b) One rajakhani gat in all the prescribed ragas.

(c) One dhun in any of the following ragas: Bhairavi and Pilu.

(d) Ability to demonstrate tivra, ada chautal with reciting bols by hand in thah and dugun layakaries and ability to play ektal in tabla.

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Semester – IV

Paper – I (Theory)

Time: 3 hours
Max. marks: 40+10 (Int. Assessment)

Note: The question paper will be divided into 3 sections comprising of 10 questions in all. The candidate will be required to attempt 5 questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section - A

(a) Historical study and detailed description of the ragas prescribed in the syllabus:
1. Shudh Kalyan 2. Khamaj 3. Kedar

(b) Ability to write the notations of maseetkhani gat and rajakhani gat in the ragas and thekas with chaugun in the talas as prescribed in the syllabus:
1. Shudh Kalyan 2. Khamaj 3. Kedar

(c) Ability to write thekas with dugun and chaugun:
2. Chautal 2. Ada chautal.

Section – B

(a) Short notes on the following:
1. Avirbhav-Tirobhav 2. Sandhi Prakash Raag 3. Amirkhani gat 4. Murchhana

(b) History of music in medieval period.

Section – C

(a) Role of science in promoting educational and cultural aspects of music during modern period.

(b) Life and Contribution of the following:
1.Smt. Annapurna Devi 2. Ustad Inayat Khan

(c) Detailed description of the following instruments:
1. Sarod 2. Tabla 3. Violin

Paper – II (Practical)

Max. marks: 50 **Time: 20-30 minutes**

(a) Two slow gats with extempore alap and toras in any of the prescribed ragas.

(b) One gat in ektal in medium tempo with toras in any of the prescribed ragas.

(c) Ability to demonstrate deepchandi and chautal with reciting bols by hand in thah and dugun layakaries and ability to play jhaptalin tabla.

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B.A. (General) (Tabla)
Semester – III

Paper – I (Theory)

Time: 3 hours
Max. marks: 40+10 (Int. Assessment)

Note: The question paper will be divided into 3 sections comprising of 10 questions in all. The candidate will be required to attempt 5 questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section - A

(a) Definition with full explanation of mukhra, tukra and paran.
(b) Explain different parts of tabla and dagga with sketch.

Section – B

(a) Knowledge of Karnatak tala system.
(b) Explain tunning method of tabla.
(c) Life and contribution of the following:
1. Pt. Kishan Maharaj 2. Ustad Habibuddin Khan 3. Ustad Alla Rakha

Section – C

(a) Ability to write the composition in different taals as prescribed in the syllabus.
(b) Different gharanas of tabla.

Paper – II (Practical)

Max. marks: 50 **Time: 20-30 minutes**

(a) Ability to play tabla solo for 10 minutes with lahra.
(b) Practice and knowledge of following taals: Chartal, Jhumra, Pancham Sawari.
(c) Rela in teental, jhaptal and rupak.
(d) At least four tukra in teental, jhaptal and rupak.
(e) A sadharan paran in chartal, jhumra, pancham sawari.
(f) Ten laggies in taal kehrawa and dadra.
(g) Practice of playing the mentioned taals with vocal items.

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Semester – IV

Paper – I (Theory)

Time: 3 hours

Max. marks: 40+10 (Int. Assessment)

Note: The question paper will be divided into 3 sections comprising of 10 questions in all. The candidate will be required to attempt 5 questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section - A

(a) Define with example: Gat, Laggi and Farmaishi.
(b) Ten pranas of taal.

Section – B

(a) Written method of dugun, tigun and chaugun of following taals: Laxmi taal, Addha Taal and Tilwara taal.
(b) Life sketches : 1. Pt. Ram Sahay 2. Ustad Karamtulla Khan
3. Ustad Abid Hussain

Section – C

(a) Ability to write the composition in different taals as prescribed in the syllabus.
(b) Comparative study of Delhi and Banaras Baj.

Paper – II (Practical)

Max. marks: 50 **Time: 20-30 minutes**

(a) Ability to play tabla solo for 10 minutes with lahra.
(b) Practice and knowledge of following taals: Laxmi, Addha and Tilwara Tal
(c) A sadharan paran in laxmi tal and at least two tihai in each of talas.
(d) Gat in teental.
(e) Sadharan and Farmaishi paran in teental, jhaptal and rupak.
(f) Two kayadas with four paltas and tihai in jhaptal and ektal.
(g) Varieties of theka in taal kahrawa and dadra.
(h) Practice of playing the mentioned taals with instrumental items.

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B.A. (General) (Kathak Dance)
Semester – III

Paper – I (Theory)

Time: 3 hours
Max. marks: 40+10 (Int. Assessment)

Note: The question paper will be divided into 3 sections comprising of 10 questions in all. The candidate will be required to attempt 5 questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section - A

(a) Definition of following: Bhramari, Chari, Mandal, Paran, Parmelu, Tipalli, Karan, Angahar, Hela.
(b) Dance and its relation with other fine arts.
(c) History and development of Rasleela and its relation to kathak dance.

Section – B

(a) Gharanas of kathak dance and their importance and also guru shishya parampara.
(b) What is the role of thumri and kavitt in kathak dance.
(c) Following life sketches: 1. Guru Bindadin Maharaj 2. Guru Rajendra Gangani.

Section – C

(a) Ability to write notation of ektal simple tatkar with dugun, chaugun layakaries:
1. Amad 2.Tora 3. Paran 4. Chakkardar Paran 5. That
6. Kavitt
(b) Writing in notation : Aad, kuad.
(c) Write the following taal and their description with their thah, dugun, tigun, chaugun layakaries: 1. Rupak 2. Ektal 3. Rudra 4. Dhamar

Paper – II (Practical)

Max. marks: 50 **Time: 20-30 minutes**

(a) Practical demonstration of ektal with nagma:
1. Simple tatkar with dugun, tigun, chaugun layakaries.
2. Amad 3. Tora 4. Paran 5. Chakkardar Paran
6. Thaat 7. Kavitt

(b) Following bandishen in teental:
1. Uthan 2. That 3. Paran amad 4. Chakkardar Paran
(c) Basic of practical demonstration of bhava like:
1. Durga stuti 2. Shiv stuti

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Semester – IV

Paper – I (Theory)

Time: 3 hours

Max. marks: 40+10 (Int. Assessment)

Note: The question paper will be divided into 3 sections comprising of 10 questions in all. The candidate will be required to attempt 5 questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section - A

(a) Study of sanyukta mudras based in abhinav darpan.
(b) Importance of gayan and vadan in dance.
(c) Study of bhavas and their importance of kathak dance.

Section – B

(a) Contribution of the following dancers in their respective field of specialization: Maharaj Sunder prasad and Shambhu maharaj.
(b) Lakshan of ghungharu based on abhinay darpan.
(c) Detailed study of Indian classical dances: Oddissi and Kuchipudi.

Section – C

(a) Ability to write notation of Dhamar tal:
   1. simple tatkar with dugun, chaugun.
   2. Tora 3. Amad 4. Tihai 5. Paran 6. Chakkardar Paran 7.One That 8. Kavitt
(b) Notation of nagma dhamar tal and ektal.
(c) Writing in notation : Biad Laya

Paper – II (Practical)

Max. marks: 50 **Time: 20-30 minutes**

(a) Practical demonstration of dhamar tal with nagma:
   1. Simple tatkar with dugun, tigun, chaugun layakaries.
   2. Amad 3. Tora 4. Tihai 5. Paran
   6. Chakkardar Paran 7. Kavitt
(b) Padhant of whole material by hand.
(c) Practical knowledge of any two gat nikas.
(d) Practical knowledge gat bhav: Makhan chori.

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B.A. (HONOURS) EXAMINATION IN HINDUSTANI MUSIC

(To take effect from the session 2011-12)

SEMESTER-III

Outlines of Test

Paper no.	Name of Paper	Max.Marks	Time Allowed
I	Biographies of Important musicians& composers etc.	90+10 (Int. Assessment)	3 Hours
II	Ancient & Medieval History uptoSharangadeva	90+10 (Int. Assessment)	3 Hours
III	Practical	100	20-30 Minutes

SYLLABUS AND COURSES OF READING

Paper-I : Biographies of important musicians and composers etc.

Note: In all ten questions will be set in this paper out of which the candidates are required to attempt any five questions in all. All questions will carry equal marks.

Max Marks: 90
Time allowed: 3 hrs.

1. Jaideva
2. GopalNayak
3. Purandar Das
4. Tayga Raja
5. Amir Khusro
6. Raja Man Singh Tomar
7. Swami Haridas
8. Faqueerullah
9. Taansen
10. Baiju
11. Surdas
12. Nikhil Banerjee
13. Faiyaz Khan
14. ShyamaShastri
15. Sultan HussainShariqui

Paper-II : Ancient & Medieval History up to Sharangadeva.
Essays on following topics:

Note: In all ten questions will be set in this paper out of which the candidates are required to attempt any five questions in all. All questions will carry equal marks.

Max Marks: 90
Time allowed: 3 hrs.

Origin and development of Indian Music; Music in Vedic period; Varieties of Samans; Musical references in Pratishakyas, Ramayan, Mahabharata and Purans; Music in the SmritiGranthas; Music in Jain and Buddha Period.

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Paper-III : PRACTICAL: Max Marks: 100
Time: 20-30 Minutes

A. Raga – Jai JaiWanti, Kedar, Bhairavi, Ramkali (with VilambitKhayal)/Gats in any two selected Ragas and DrutKhayal, Gats in all of the above Ragas with Gayaki styles.

B. One Dhrupad-Dhamar, Thumri in any one Raga of the syllabus.

B.A. (HONOURS) EXAMINATION IN HINDUSTANI MUSIC

(To take effect from the session 2011-12)

SEMESTER-IV

Outlines of Test

Paper no.	Name of Paper	Max.Marks	Time Allowed
I	Biographies of Important musicians& composers etc.	90+10 (Int. Assessment)	3 Hours
II	Ancient & Medieval History uptoSharangadeva	90+10 (Int. Assessment)	3 Hours
III	Practical	100	20-30 Minutes

SYLLABUS AND COURSES OF READING

Paper-I : Biographies of important musicians and composers etc.

Note: In all ten questions will be set in this paper out of which the candidates are required to attempt any five questions in all. All questions will carry equal marks.

Max Marks: 90
Time allowed: 3 hrs.

1. V .N. Bhatkhande
2. Vishnu DigamberPaluskar
3. Allauddin Khan
4. P. T. Ratanjankar
5. Bade Ghulam Ali Khan
6. PannaLalGhosh
7. Pt. Ravi Shankar
8. Mushtaq Ali Khan
9. Amir Khan
10. OmkarNath Thakur
11. Krishna Rao Shankar Pandit
12. Vilayat Khan

Paper-II : Ancient & Medieval History up to Sharangadeva.
Essays on following topics:

Note: In all ten questions will be set in this paper out of which the candidates are required to attempt any five questions in all. All questions will carry equal marks.

Max Marks: 90
Time allowed: 3 hrs.

A. Sangeet in Pannini'sAshtadhyaya; Music in Maurya Period; Sangeet in Kautilya'sArthashastra, Patanjali'sMahabhashya; Sangeet in Gupt Period, Rajput Period; MadhyakaleenSangeet up to Sharangdeva period.

B. General view of the following authors:
Bharat, Matang, Narad, Sharangdeva.

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Paper-III : PRACTICAL: Max Marks: 100
Time: 20-30 Minutes

A. Ragas – Malkauns, Khamaj, Chhayanat and Hamir with vilambitkhayal/Gats in any two selected Ragas and DrutKhayal/Gats in all of the above Ragas with Gayaki styles.

B. One Bhajan or Shabad/Dhunin any of the Ragasfrom the syllabus.

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M.Phil Geography
Syllabus and Scheme of Examination

ANNUAL SYSTEM w.e.f. 2010-11

		Max. Marks	Time
Paper-I	Explanations in Geographic Research	80	3 hours
	Sessional	20	
Paper-II	Opt. (i) Urban Geography (Advanced Course)	80	3 hours
	Sessional	20	
	Opt. (ii) Political Geography 80 (Advanced Course)	80	3 hours
	Sessional	20	
	Opt. (iii) Geomorphology 80 (Advanced Course)	80	3 hours
	Sessional	20	
	Opt. (iv) Strategies and theories in Regional Development and planning (Advanced Course)	80	3 hours
	Sessional	20	
Paper-III	Research Methodology in Geography	80	3 hours
	Sessional	20	
Paper-IV	Opt. (i) Agricultural Geography (Advanced Course)	80	3 hours
	Sessional	20	
	Opt. (ii) Population Geography (Advanced Course)	80	3 hours
	Sessional	20	
	Opt. (iii) Analysis of Physical Environment (Advanced Course)	80	3 hours
	Sessional	20	
	Opt. (iv) Applied climatology (Advanced Course)	80	3 hours
	Sessional	20	
Every candidate shall deliver two seminars.			
	Seminar I	50	
	Seminar II	50	

In addition, every candidate shall submit a dissertation or project work/ problem or design work (hereinafter as Dissertation) and appear in viva voce on the Dissertation.

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Paper-I Explanation in Geographic Research

Max. Marks: 80+20
Time : 3 Hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A
Quantitative Traditions in Geographic Explanation

1 Transformation of Geography from ideographic to nomothetic science
2 Routes and forms of explanations
3 Empiricism and positivism
4 Laws, theories and models.
5 System Analysis and General Systems Theory.

Section-B
Qualitative Traditions in Geographic Explanation

6 Critical revolution and qualitative analysis.
7 Humanistic traditions and behavioral explanations.
8 Marxist and Feminist perspectives
9 Postmodernism
10 New regional geography – place and locality studies.

Suggested Readings:

1. Bowen, M.J. (1979): Scientific Method – After Positivism, Australian Geographical Studies, Vol. 17, pp. 210-216
2. Burton, I (1963): The quantitative Revolution and Theoretical Geography, The Canadian Geographer, Vol. 7, pp. 151-162
3. Dixit, R.D. (1997): Geographical Thought: A Contextual History of Ideas, Prentice – Hall of India, New Delhi.
4. Gregory, D. (1994): Geographical Imaginations, Basic Blackwell, Oxford.
5. Johnston, R.J. (1991): Geography and Geographers, Edward Arnold, London.
6. Peet, R. (1998), Modern Geographical Thought.
7. Peet, R. (1977): Radical Geography, Maroufa Press, Chicago.
8. Soja, E. (1989): Postmodern Geographics: The Reassertion of space in critical Theory, vesso, London
9. Harvey, David (1969): Explanation in Geography, Arnold Publishers, Banglore.

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Paper-II Option (i)

Urban Geography (Advanced Course)

Max. Marks: 80+20
Time: 3 hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A

1. Spatial processes of urban development and metropolitisation.
2. Processes of urban growth and structural models with special reference to India
3. Urban morphology as field of urban ecology: traditional versus contemporary A case of Indian metropolitan cities.

Section-B

4. Central Business District (CBD): Historical evolution, characteristics, demarcation and redevelopment of CBD with special reference to Indian Cities.
5. Impact of globalization on urbanization and development with special reference to India.
6. Urban policies in India.

Suggested Readings:

1. Bose Ashish (1972): Studies in Indian Urbanization, 1970-71, Tate Mc Graw-Hill, Bombay.
2. Bose Ashish (1978): Urbanization in India. Academic Books Ltd., Bombay.
3. Berry, B.J.L. and Kasarda, J.D. (1977): Contemporary Urban Ecology. Macmillan, New York.
4. Carter, H. (1972): The study of Urban Geography. Edward Arnold, London.
5. Dickinson, R.E. (1974): City and Region. Routledge and Kegan Paul Ltd. London.
6. Mishra, R.P. and others (1974): Regional Development Planning in India, Vikas Publishing, Delhi.
7. Ramachandran, R. (1989): Urbanization and Urban Systems in India. Oxford University Press, New Delhi.
8. Prakasa Rao, V.K.S. (1993): Urbanization in India: Spatial Dimension. Concept, New Delhi.
9. Rimsa, A. (1976): Town Planning in Hot Climate. Mir Publishers, Moscow.
10. Sinha, S.P. (1984): Processes and Pattern of Urban Development in India: A case Study.
11. Tiwari, V.K. and others (ed.) (1986): Indian Cities: Ecological Perspectives. Concept, New Delhi.

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Paper-II Option (ii)

Political Geography (Advanced Course)

Max. Marks: 80+20
Time: 3 hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A

1. Approaches to the study of political geography
2. The state, Nation and nation state. Modern theories on state; Territory of states in acquisition, size and shape
3. Unitary, Federal and Regional State.

Section-B

4. Studies of Boundary in Political Geography
   i) Boundaries and Frontiers
   ii) Boundary formation/making
   iii) Classification of international boundaries.
5. Core areas and capital
6. Contemporary international relations
   i) International law, international trade.
   ii) Economic integration
   iii) Land locked state with special reference to Nepal; problems of enclaves and exclaves
   iv) The developing laws of the sea, zone of national jurisdiction in the sea and related aspects.

Suggested Readings:

1. Alexander, L.M. (1963): World Political Patterns, Ren Monally, Chicago.
2. Cohon, S.B. (1968): Geography and Politics in divided world, Methuen, London.
3. De Bliz H.J. (1989): Systematic Political Geography: John Wiley, New York.
4. Dikshit, R.D. (1982): Political Geography – A Contemporary Perspective. Tata Mc Graw-Hill, New Delhi.
5. Muir, R. (1975): Modern Political Geography – A Contemporary Perspective. Tata McGraw-Hill, New Delhi.
6. Tylor, Peter (1985): Political Geography, Longman, London.

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Paper-II Option (iii)

Geomorphology (Advanced Course)

Max. Marks: 80+20
Time: 3 hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A

1. Methods of geomorphological investigation: Scientific methods within geomorphology; main branches of geomorphological inquiry; role of Technique in data collection; application of geomorphological models.
2. Mapping Techniques in Geomorphology: Slope classification maps; morphological maps; geomorphological mapping and land system mapping.

Section-B

3. Slope processes and slope profile development: environment's process on hill slopes; Model of hill slopes development; Techniques for the investigation of slow and rapid forms of mass movement.
4. Climatic change and geochronological methods – documentary evidence artifacts, major horizons, dendrochronology, pollen, thermoluminescence,

Suggested Readings:

1. Goudie, A. (ed.) (1981): Geomorphological Techniques. George Allen and Unwin, London.
2. Kind, C.A.M. (1967): Techniques in Geomorphology. Edward Arnold, London.
3. Thorn, C.E. (1982): Space and Time in Geomorphology. George Allen & Unwin, London.

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Paper-II Option (iv)

Strategies and theories in Regional Development and Planning
(Advanced Course)

Max. Marks: 80+20
Time: 3 hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A
Regional Development Theories:

1. Theory of Spatial Organization and Integration.
2. Theories of Polarized Development.
3. Theories of Spatial underdevelopment.
4. Theories of Development from below.
5. Ecological Theories.

Section-B
Strategies in Regional Planning

6. The State, Regional Policy formation and Regional Development Strategies in India, a detailed review of the 5-year plan.
7. The Evolution of Planning Practice.
8. Regional Social Movements in India and their linkages with regional development strategies.
9. The New Economic Policy and its impact on the Regional structure and Regional Problems in India.

Suggested Readings:

1. Friedmann, J. Alansow. (1971): Regional Development and Planning – A Reader, MIT Press
2. Mishra, R.P. (ed). (1992): Regional Planning, concepts, Techniques, Policies and case studies, Concept Publishes, New Delhi.
3. Bhat, L.S. (1973): Regional Planning in India, Statistical Publishing Society, Kolkata.
4. Dube K.N. (ed) (1990): Planning and Development in India, Asia Publishing House, New Delhi.
5. Potter, R.B. Binns Tonny, Eliot J.A. and Smith Davis (1999): Geographies of Development, Longman, England.
6. Frger, D.W. (1999): World Economic Development, McGraw, Bark Hill
7. Hodder, R. (2000), Development Geography, Routledge: Contemporary Human Geography series, London.

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Paper-III **Research Methodology in Geography**

Max. Marks: 80+20
Time: 3 hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A
Issues in Geographical Research:

1. Defining Research Problems and Purpose.
2. Literature Review: Types of Literature Materials, Format and Organization of Literature Review.
3. Sampling Design: Census and sample survey, Types of samples, steps and criterion of sampling procedure.
4. Methods of Data Collection: Primary and secondary. Survey and Questionnaire Methods.
5. Research Proposal format and Report writing.

Section-B
Processing and Analysis of Data:

6. Measure of Inequality: Lorenz curve, Gini's Coefficient.
7. Hypothesis Testing and Chi-square test.
8. Multi-variate Analysis: Multiple correlation and Regression.
9. Composite Indices and Basics of Principal Component Analysis.
10. Time-Series Analysis.

Suggested Readings:

1. Har Prasad (1992): Research Methods and Techniques in Geography, Rawat Publishers, Jaipur.
2. Mishra, H.N. and Singh V.P. (ed.) (1998), Research Methodology: Social, Spatial and Policy Dimensions, Rawat Publishers, Jaipur.
3. Goode and Hat, Research Methodology in Social Sciences, Oxford University Press, New Delhi.
4. Johnsont, R.J. (1978): Multivariate statistics in Geography, Longman, London.
5. Black James A and D.J. champion (1976): Methods and Issues in social Research, New York, Jolm Wiley and Sons, Inc.

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Paper-IV Option (i)

Agricultural Geography (Advanced Course)

Max. Marks: 80+20
Time: 3 hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A

1. Techniques of agricultural regionalization and typology of agriculture: Criteria of delineation of regions and typologies.
2. Concepts and measurement of regional imbalances in agricultural productivity.
3. Quantitative analysis of agricultural characteristics: Indices of crop-concentration, crop diversification, and crop combination.

Section-B

4. Agricultural landuse and cropping pattern and influencing factors with reference to India
5. Technological changes in Indian agriculture: Introduction of package of technology, Green-Revolution, and diffusion of agricultural innovations.
6. Regional pattern of agricultural productivity in India and factors influencing it.

Suggested Readings:

1. Bhalla, G.S. and Tyagi, D.S. (1989): Patterns of Agricultural Development in India, ISIO, New Delhi.
2. Gregor, H.F. (1970): Geography of Agriculture: Themes in Research, Prentice Hall, New Jersey.
3. Morgan, W.B. and Munton, R.J.C. (1971): Agricultural Geography, Methuen, London.
4. Singh, Jasbir and Dhillon, S.S. (1984) Agricultural Geography. Tata McGraw-Hill, New Delhi.
5. Symons, L.J. (1966): Agricultural Geography. Bell, London.
6. Sharma, B.L. (1991): Applied Agricultural Geography. Rawat Publications, Jaipur.
7. Tarrant, J.R. (1974): Agricultural Geography, David and Charles, Newton, Abbos.

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Paper-IV Option (ii)

Population Geography (Advanced Course)

Max. Marks: 80+20
Time: 3 hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A

1. Methodological Problems in population geography.
2. Approaches to the study of population geography (systematic, behavioural, and systems approach).
3. Sources of data for population geography: National Sample Survey, Indian Census, Civil Regiatration System, Sample Registration System.
4. Problems of handling population data and mapping of population.

Section-B

5. Population – resource relationship: Over population, under population, optimum population; Population-resource regions; Population and Development; Concept of Sustainable development.
6. Population and Environment: Impact of growing population pressure on environment.
7. Population policies: Comparative analysis of population policies of less developed countries and more developed countries; Population policies of India, China, Japan and USA.

Suggested Readings:

1. Clarke, J.I. (1973): Population Geography, Pergaman Press, Oxford.
2. Chandana, R.C. (1998): A Geography of Population, Kalyani Publishers, New Delhi.
3. Chandana, R.C. (1998): Environmental Awareness, Kalyani Publishers, New Delhi.
4. Chandana, R.C. (1998): Population Geography, Kalyani Publishers, New Delhi
5. Demko, G.J. Et. Al. (1970): Population Geography: A Reader, Mc Graw-Hill, New York.
6. Enrlich, T.R. and A.H. Enrlich (1970): Population Resources Environment, W.H.Freeman and Co., Sam Fransisco.
7. Premi, M.K. at. al. (1983): An introduction to social geography. Vikas Publication House, New Delhi.
8. Premi, M.K. (1991): India's Population Heading towards a million D.K. Publishers and distributors, Delhi.
9. Zelinsky, W et. al. (1970): Geography and a Crowding World, University Press, Oxford.

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Paper-IV Option (iii)

Analysis of Physical Environment
(Advance Course)

Max. Marks: 80+20
Time: 3 hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A

1. Environment: Definition, component, system, scope of environmental conservation; maintenance and management of resources.
2. Drainage basin as an integrated unit of physical environment: Structure of drainage basin; integration in terms of slope; surface runoff.

Section-B

3. Analysis of Drainage Basin: Drainage orders: Horton's Laws; techniques of analyzing point, line and area variables of drainage basin; functional classification of a drainage basin, watershed development and management.
4. Morphological Units: Delimitation of moropho-units; attributes of morpho-units (slope, attitude, relief, and texture)

Suggested Readings:

1. Gragory, K.S. and Wallings, D.e. (1973): Drainage Basin. Form and Processes, Edward Arnold.
2. Chorley, R.J. (ed.) (1969): Introduction to Fluvial Processes, Metheun, London.
3. Cooke, R.U. and Doarnkemp, J.C. (1974): Geomorphology in Environmental Management: An Introduction, Clarendon Press, Oxford.

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Paper-IV Option (iv)

Applied Climatology
(Advance Course)

Max. Marks: 80+20
Time: 3 hours

Note: There will be six questions in all with three questions in each section. The candidates will be required to attempt four questions selecting at least 2 questions from each section. All questions will carry equal marks.

Section-A

1. Introduction, scales of climate, climate and weather as resources and hazards.
2. Solar energy, earth surface heating, temperature variability, radiation and temperature applications.
3. Water cycle, floods and droughts, water budget, and wind energy.
4. Synoptic climatology, weather pattern and long range forecasting.

Section-B

5. Bioclimatology, physiological and psychological effects of weather, climate and health.
6. Effects of climate on agriculture, industry and transportation.
7. Urban climates, urbanization and microclimates, climate and urban planning and architecture, air pollution.
8. Climatic variability, change and cycles, global warning and its impacts on earth's systems.

Suggested Readings:

1. Oliver, John E. (1973): Climate and Man's Environment: An Introduction to Applied Climatology, John Wiley and Sons, New York, London.
2. Mather, J.R. (1974): Climatology: Fundamentals and Applications, McGraw-Hill, New York.
3. Thompson, Russell, D. (1997): Applied Climatology – Principles and Practice.
4. Ramasastry, A.A. Weather and Weather Forecasting Publication, Division, New Delhi.
5. Barry R.G. and Charley, R.J. Atmosphere, Weather and Climate, Marthren, 1968

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M.Tech. (ELECTRICAL & ELECTRONICS ENGINEERING)
(POWER ELECTRONICS & DRIVES SPECIALIZATION)

FIRST SEMESTER

Course No.	Title	Schedule of Teaching				Evaluation	
		L	T	P	Total	Int.	Ext.
MTEEl-1.1	Power Electronics Devices	4	-	-	4	40	60
MTEEl-1.2	Advanced Power System Analysis	4	-	-	4	40	60
MTEEl-1.3	Digital Control Systems	4	-	-	4	40	60
MTEEl-1.4	Microprocessors and DSP	4	-	-	4	40	60
MTEEl-1.5	Power Electronics Lab	-	-	3	3	40	60
MTEEl-1.6	Seminar – 1	-	-	1	1	25	--
	Total	16	--	4	20	225	300

SECOND SEMESTER

Course No.	Title	Schedule of Teaching				Evaluation	
		L	T	P	Total	Int.	Ext.
MTEEl-2.1	Electric Drives	4	-	-	4	40	60
MTEEl-2.2	Power Apparatus and Machines	4	-	-	4	40	60
MTEEl-2.3	AC Controllers	4	-	-	4	40	60
MTEEl-2.4	Cryptography	4	-	-	4	40	60
MTEEl-2.5	Electric Drives Lab	-	-	3	3	40	60
MTEEl-2.6	Seminar – 2	-	-	1	1	25	--
	Total	16	--	4	20	225	300

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THIRD SEMESTER

Course No.	Title	Schedule of Teaching				Evaluation	
		L	T	P	Total	Int.	Ext.
MTEEl-3.1	System Modeling and Optimization	4	-	-	4	40	60
MTEEl-3.2	Modeling and Analysis of Electrical Machines	4	-	-	4	40	60
MTEEl-3.3	Information Security	4	-	-	4	40	60
MTEEl-3.4	Elective	4	-	-	4	40	60
MTEEl-3.5	Simulation Lab	-	-	3	3	40	60
MTEEl-3.6	Seminar - I on Dissertation	-	-	1	1	25	--
	Total	16	--	4	20	225	300

Dissertation topic and supervisor has to be finalized at the beginning of the 3rd semester.

FOURTH SEMESTER

Course No.	Title	Schedule of Teaching				Evaluation	
		L	T	P	Total	Int.	Ext.
MTEEl-4.1	Dissertation	-	-	15	15	-	200
MTEEl-3.6.1	Seminar-II on dissertation	-	-	1	1	25	--
	Total	-	--	16	16	25	200

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List of Elective courses

S No	Course No	Title
1	MTEEl-3.4.1	Intelligent Control
2	MTEEl-3.4.2	PLC And Micro Controllers
3	MTEEl-3.4.3	Computer Aided Design Of Electrical Machines
4	MTEEl-3.4.4	Special Topics in PED
5	MTEEl-3.4.5	Signal Processing

The Scheme for Examination:

1. For every Theory course :

Internal Assessment 40 marks of which 30 marks will be assigned on the basis of two better tests out of three tests and 10 marks will be assigned on the basis of assignments/ CW.

End semester Examination 60 marks.

NOTE: To examiner : The syllabus is divided into four units. There will be total eight questions, two from each unit.

The candidate is to answer five questions in all, selecting at least one from each unit.

2. For every Laboratory course: Internal Assessment 40 marks
End semester Examination 60 marks.

3. For Dissertation: External as well as Internal examiners will examine the dissertation of the candidate, submit the report and conduct viva/ voce exam of the candidate. Exam marks will be awarded jointly.

The external examiner will be appointed by the BO Studies.

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MASTER OF TECHNOLOGY (ELECTRICAL & ELECTRONICS ENGINEERING**)**
POWER ELECTRONICS & DRIVES SPECIALIZATION w.e.f. 2010-11

Course No. MTEEl-1.1 **Power Electronics Devices**

L T P	**Marks (40 internal, 60 Exam)**
4 - -	**Exam Time 3 hrs.**

UNIT 1

Review of power switching devices, i.e., Thyristors, GTO, MOSFET, BJT, IGBT and MCT.

Trigger technique, optical isolator, protection circuit, isolation transformers.

Natural and forced commutation of SCRS

UNIT 2

Phase-controlled rectifier configuration, half wave, full wave, controlled bridge, three phase controlled rectifies, Control of output voltage by sequence and sector control. Reduction of harmonic using multiple-pulse control.

UNIT 3

Design of rectifier circuit. Comparative aspect of design using converter transformers-forced and self turn off devices.

UNIT 4

Chopper step down and step up configurations. Design of chopper circuits. Reduction of harmonics. Introduction to multiphase choppers. Analysis of rectifier and chopper circuits. Unity p.f. rectifiers.

References:

1. N. Mohan, T.M. Undeland & W.P. Robbin, “Power Electronics, Converter Applications and Design”, John Wiley & Sons, 1989.
2. M.H. Rashid, “Power Electronics,” Prentice Hall, 1994
3. B.K. Bose, “Power Electronics and AC Drives,” 1986
4. R.Bausiere and G. Seguier, “Power Electronics Converters”, Springer-Verlag, 1987
5. D.M. Mitchell, “DC-DC Switching Regulator Analysis,” McGraw Hill, 1987

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-1.2 **Advanced Power System Analysis**

L T P	**Marks (40 internal, 60 Exam)**
4 - -	**Exam Time 3 hrs.**

UNIT 1

Review of matrix operations, graph theory, and various circuit incidence matrices, primitive network and matrix, Formation of various network matrices by singular transformation interrelations.Building algorithm for bus iMTEElance matrix, Modification of bus iMTEElance matrix for change of reference bus for network changes, Formation of bus admittance matrix and modification,

UNIT 2

Gauss elimination, Node elimination (Kron reduction), LU factorization, Schemes of Ordering, Sparsity, Calculation of Z bus elements for Y bus.

Representation of three phase network elements, Treatment under balanced and unbalanced excitation, Transformation matrices, Unbalanced elements.

UNIT 3

Network short circuit studies using Z bus, Short circuit calculations for various types of faults. Load flow studies, its importance. Classification of buses, load flow techniques, Iterative solutions and computer flow charts using Gauss-Seidel and Newton-Raphson methods, Decoupled and fast decoupled load flow solution, Representation of regulating and off nominal ratio transformers, Tie-line control, Comparison of methods.

UNIT 4

Introduction to AC-DC load flow problems: formation and solutions.

Power system security, Contingency analysis using Z bus using sensitivity factors.

Introduction to state estimation, maximum likelihood weighted least square error estimation, State estimate of an AC network.

References:

1. G.W. Stagg & A.H EI-Abaid, “Computer methods in Power system analysis”, McGraw Hill, New York.
2. G.L Kusic., “Computer-Aided Power System Analysis”, Prentice Hall of India, New Delhi.
3. John J.Grainger and W.D.Stevenson, “Power System Analysis”, McGraw Hill, New York, 1994.
4. A.J. Wood & W.F. Wollenberg, “Power Generation, Operation, and Control”, 2nd Edn, John Wiley & Sons, New York, 1996.
5. O.I. Elgerd, “Electric Energy Systems Theory: An Introduction”, McGraw Hill, New York, 1982
6. J. Arrillaga, C.P Arnold & Harker, “Computer Modeling of Electrical Power Systems”, John Wiley & Sons.

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-1.3 **Digital Control Systems**

L	**T**	**P**	**Marks (40 internal, 60 Exam)**
4	**-**	**-**	**Exam Time 3 hrs.**

UNIT- 1 Review of Z-transform and inverse Z-transform modified Z-transform. Representation of discrete time systems.

UNIT- 2 Pulse Transfer Functions, State Space models. Stability analysis: Jury's Test and numericals based on this, Routh's test. Issues of sampling and discretization.

UNIT - 3 Models of Digital control devices and systems: Z-domain description & digital filters. Analysis of Discrete time systems, Controllability and Observability, Effects of sampling, multirate sampling.

UNIT - 4 Design of Digital controller: Classical & State-space techniques. Realization of Discrete time controller: Quantization errors.

References:

1. P.N. Paraskevopoulos, "Digital Control Systems", Prentice Hall, 1996,
2. M.Gopal, "Digital Control & State variable methods", TMH 1997.
3. K.Ogata, "Digital Control System" PHI

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-1.4 **Microprocessors & Digital Signal Processors**

L T P	**Marks (40 internal, 60 Exam)**
4 - -	**Exam Time 3 hrs.**

UNIT- 1 Architecture of 8086 microprocessor, Development of 8086 processors, interrupt structure. Addressing modes, Instruction set and application programs, Main Assembler Directives, Interfacing D/A and A/D converters using programmable I/O devices.

UNIT - 2 Introduction to microcontrollers, Architecture of 8051 microcontroller, basic Instruction set, programming, serial data communication, interfacing with D/A and A/D converters.

UNIT - 3 Introduction to Digital Signal Processors, Architectures of TMS-320 series, Instruction Set, Programming and Interfacing.

UNIT – 4 Application of Microprocessors, Microcontrollers and Digital Signal Processing in Power and Control Systems.

References:

1. Gibson, “Microprocessors”, Prentice Hall of India.
2. K.J. Ayala, “Micro Controller”, Penram International.
3. Reference Manual of TMS-320 Digital Signal Processor.

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-1.5 **Power Electronics LAB**

L	T	P
-	-	3

Internal : 40 Marks
Practical : 60 Marks
Total : 100 Marks

LIST OF EXPERIMENTS :-

(1) To study the characteristics of Thyristor, Triac, Transistor & MOSFET.
(2) To study full wave converter.
(3) To study speed control of Single phase induction motor using Cycloconverter.
(4) To study the voltage waveform across thyristors, capacitors & average output voltage for Morgan and Jones Chopper.
(5) To study the operation of a single phase dual converter & also verify that $\alpha_{1+} \alpha_{2=180.}$
(6) To find the average output voltage of step-up MOSFET based chopper circuit.
(7) To study the Harmonic reduction in inverter by phase displacement technique.
(8) To control the speed of DC series motor using chopper.
(9) To study different waveforms in Switched mode Regulator.
(10)To study series & parallel commutated inverter.
(11) To study PWM inverter.

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Course No. MTEEl-2.1 **Electric Drives**

L T P	**Marks (40 internal, 60 Exam)**
4 - -	**Exam Time 3 hrs.**

UNIT- 1 Basic concept characteristics and operating mode of drive motors. Starting, braking and speed control of motors. 4 quadrant drives.

UNIT- 2 Types of loads. Torque and associated controls used in process industries. Applications of solid state controllers such as choppers, rectifiers, inverter and cycloconverter in drive System, and their performance characteristics.

UNIT - 3 Modern trend in industrial drives. Studies relating to steel mills, paper mills, textile mill, machine tools etc.

UNIT - 4 A.C. motor drives in transportation system and traction. Duty cycle. Heating/cooling and insulation in motors. Choice of motors and rating.

References:

1. G.K. Dubey,"Fundamentals of Electrical Drives", Narosa Publishing House, New Delhi
2. R. Krishan,"Electric Motor Drives: Modeling analysis and control", PJI Pvt Ltd., New Delhi, 2001.
3. B.K. Bose, "Power Electronics and Variable Frequency Drives",Technology and Applications IEEE Pres, 1997.
4. B.K. Bose, "Modern Power Electronics and AC Drives", Pearson, Delhi, 2002.
5. L.A. Oliver, "Adjustable Speed Drives": Application Guide, JARSCO Engg. Corpn., and FPRI, Palo Alto, 1992.
6. J.M.D. Murphy and FG Turnbull, "Power Electronics Control of AC Motors", PERGAMON Press, UK, 1988.

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-2.2 Power Apparatus and Machines

L T P **Marks (40 internal, 60 Exam)**
4 - - **Exam Time 3 hrs.**

UNIT- 1 Generalized Theory of Electrical Machines: Introduction, primitive model, transformation, voltage equations for induction and synchronous machines.
Servomoters, Stepper moters, synchros, BLDC motors

UNIT- 2 Induction Machines: Abnormal running operation, effect of space harmonics, slip power control, capacitor self-excitation of induction machines and its applications.

UNIT - 3 Transformers : Transformer as a mutually coupled circuit, equivalent circuit from coupled circuit approach. Multi circuit Transformers: Advantage, theory, equivalent circuit, regulation, three circuit transformers.

UNIT – 4 Three phase autotransformers : Connections and Analysis Parallel operation of dissimilar transformers. Harmonics; Inrush current phenomenon, effect of load and three phase connections. Sequence iMTEElances in transformers.

References:

1. MIT Staff, “Magnetic Circuits and Transformers”, MIT Press Cambridge.
2. L.F Blume,”Transformer Engineering”, John Wiley & Sons, Inc, N.Y.
3. Fitzgerald & Kingsley, “Electric Machinery”, McGraw Hill Co. New Delhi.
4. A Langsdorf, “Theory of alternating current Machinery”, McGraw Hill Co. New Delhi.
5. PS Bimbhra ,“Generalized Theory of Electrical Machines”, Khanna Publishers, New Delhi.

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-2.3 **A.C. Controllers**

L T P **Marks (40 internal, 60 Exam)**
4 - - **Exam Time 3 hrs.**

UNIT- 1 Single-phase and three-phase back controllers. Triggering technique for power factor and harmonic controls. Design analysis of phase control circuits, solid state transfer switches.

UNIT- 2 Concept of three-phase to single phase and single phase to three-phase cyclo-converter. Symmetrical and asymmetrical control. Harmonic analysis of the output voltage. Effect of source inductance.

UNIT - 3 Line commutated inverter. Single-phase and three-phase inverters, configuration of VSI & CSI. Concept of PWM techniques, single and multiple pulse periodic and DC level modulation strategies.

UNIT - 4 Reduction of harmonics. Active filters, passive filter, Software and hardware methods of generating firing pulses.

References:

1. N. Mohan, T.M. Undeland & W.P. Robbin, “Power Electronics, Converter Applications and Design”, John Wiley & Sons, 1989.
2. M.H. Rashid, “Power Electronics”, Prentice Hall, 1994
3. B.K. Bose, “Power Electronics and AC Drives”, 1986
4. R.Bausiere and G. Seguier, “Power Electronics Converters”, Springer-Verlag, 1987
5. D.M. Mitchell, :DC-DC Switching Regulator Analysis”, McGraw Hill, 1987

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-2.4 **Cryptography**

L T P	**Marks (40 internal, 60 Exam)**
4 - -	**Exam Time 3 hrs.**

UNIT- 1 Introduction to Cryptography and information Security Mathematical Foundation Introduction to groups, rings and fields, structures of finite fields, groups constructed over points on an elliptic curve.

UNIT- 2 Congruences and residue classes, quadratic residues and square roots modulo integer. Theory of computational complexity, fundamentals of probability theory, birthday paradox.

UNIT - 3 Basic Cryptographic techniques – Classical techniques, Symmetric techniques (AES & DES), Asymmetric techniques – Discrete log problem, Deffie Hellman Key exchange, RSA algorithm, ElGamal systems, Elliptic curve arithmetic and Cryptography.

UNIT - 4 Message authentications, Cryptographic Hash Functions, Hash algorithms, MD5 message digest algorithm, Digital Signatures and authentication protocols.

References:-

1. W. Stallings, “Cryptography and Network Security”, Pearson Education., New Delhi, 2003.
2. W. Mao, “Modern Cryptography: Theory and practice”, Pearson Education., New Delhi, 2004.

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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MASTER OF TECHNOLOGY (ELECTRICAL & ELECTRONICS ENGINEERING**)**
POWER ELECTRONICS & DRIVES SPECIALIZATION w.e.f. 2010-11

Course No. MTEEl-2.5 **Electric Drives Lab**

Internal : 40 Marks
Practical : 60 Marks
Total : 100 Marks

L	T	P
-	-	3

LIST OF EXPERIMENTS :-

(1) Study of industrial applications of various machines.
(2) Study of different types of loading on a particular machine:
  (a) Intermittent loading
  (b) Continuous loading
(3) Three phase fully controlled rectifier fed separately excited DC motor (1hp) at different firing angles for obtaining speed torque characteristics.
(4) Single phase fully controlled rectifier fed separately excited DC motor (1hp) at different firing angles for obtaining speed torque characteristics.
(5) Chopper control of DC series motor (1hp) for obtaining speed-torque characteristics.
(6) Chopper control of separately excited DC motor (1hp) for obtaining speed -torque characteristics.
(7) (a) VSI controlled induction motor drive (either through controlled rectifier or Chopper).
  (b) CSI controlled induction motor drive (either through controlled rectifier or Chopper).
(8) Half wave Cycloconverter fed IM drive for obtaining Speed-Torque Characteristics & torque controlled frequency for constant V/F ratio.
(9) (a) VSI Synchronous motor drives with load commutation.
  (b) CSI Synchronous motor drives with load commutation.
(10) Self controlled Synchronous motor drives employing cycloconverter.
(11) Regenerative braking of separately excited c motor.
(12) AC dynamic braking (Rheoststic) of three phase induction motor.
(13) Reverse voltage braking (Plugging) of a three phase induction motor.
(14) Measurement of moment of inertia (Retardation test) of a three phase induction motor.

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Course No. MTEEl-3.1 System Modeling and Optimization

L T P **Marks (40 internal, 60 Exam.)**
4 - - **Exam Time 3 hrs.**

UNIT- 1 System Modeling:
Introduction, types of modeling, modeling of time-varying, distributed, stochastic, nonlinear, discrete event and hybrid systems.Conventional tools for linear system modeling, Introduction to non-conventional modeling tools , Neural models, fuzzy models.Model simulation languages and tools.

UNIT- 2 Optimization Theory:
Introduction to optimization theory, Importance in solving system engineering problems, Convex sets & Functions; affine and convex sets, supporting and separating hyper planes, dual cones and generalized inequalities.

UNIT - 3 Linear Programming problem Formulation, Simplex Method, Dual Simplex method, sensitivity analysis, duality in programming. Introduction to nonlinear programming;
Unconstrained Optimization-formulation of quadratic optimization problems, gradient descent and steepest descent methods, Newton's method, self-concordance.

UNIT - 4 Constrained optimization – direct optimization, Cutting plane methods, methods of feasible direction, analytic center cutting plane methods.Multi-objective Optimization. Application to approximation and filling problems.

References:

1. SS Rao, "Optimization theory and applications" Wiley Eastern Ltd.
2. KV Mittal, "Optimization methods", Wiley Eastern Ltd.
3. NA Kheir, "System modeling and computer simulation" Marcel Decker, New York.
4. Korn G.A., "Interactive Dynamic System Simulation", McGraw Hill, N.Y.

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-3.2 Modeling & Analysis of Electric Machines

L T P	**Marks (40 internal, 60 Exam.)**
4 - -	**Exam Time 3 hrs.**

UNIT 1 Introduction to the modeling of electrical machines. Reference Frame Theory. Linear and non linear model,

UNIT 2 Modeling and Analysis of Induction and Synchronous Machines in the Steady state, synch. machine: basic configuration, excitation methods, d-q-0 transformation, phasor diagram, modeling considerations. Choice of variables, steady state and transient analysis.

UNIT 3 Computer Simulations of Induction and Synchronous machines, steady state and transient operation, load analysis, introduction to computer packages of computer simulation

UNIT 4 Speed and Torque Control in Induction and Synchronous motors.

References:

1. Paul C.Krause Oleg Wasynczuk, Scott D. Sudha, "Analysis of Electric Machines"
2. A. E. Fitzgerald, Charles Kingsley Stephen D.mang., "Electric Machinery", 6th Ed.,
3. Drag O Dollnar, "Electric Machines Modeling and Control", University of Marihar.
4. P.S. Bhimbhra. "Generalized Theory of Electric Machines", Khanna Publication

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-3.3 Information Security

L T P	**Marks (40 internal, 60 Exam)**
4 - -	**Exam Time 3 hrs.**

UNIT- 1 Information Security and privacy, introduction, Security levels, Security aims.

UNIT- 2 System Security – Security models, Security functions and Security Mechanisms, Privacy enhancing Mechanisms, Access control: role based attribute based, Data base Security, Secure programming, Security evaluation criteria.

UNIT - 3 Network Security – Security Threats and vulnerabilities, Firewalls, IDS, VPNS, Router Security, Viruses, Worms, DoS, DDos attacks, OS Security, Security protocols, Security management, Audit and Assurance, Standards, Availability, Survivability, Introduction to disaster recovery and Forensics.

UNIT - 4 Introduction to Cryptography. Mathematical Foundation Introduction to groups, rings and fields, structures of finite fields, groups constructed over points on an elliptic curve.

References:-

1. B. Matt, “Computer Security”, Pearson Education., New Delhi, 2003.
2. W. Stallings, “Cryptography and Network Security”, Pearson Education., New Delhi, 2003.
3. Rolf Oppliger, “Secrets technologies for world wide web”, 2nd Edition, Artech House, 2003.

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-3.4.1 Intelligent Control

L T P	**Marks (40 internal, 60 Exam.)**
4 - -	**Exam Time 3 hrs.**

UNIT- 1 Introduction to Soft Computing Methodologies – Artificial Neural Networks, Fuzzy Logic, Genetic Algorithm. Need for intelligent control, intelligent system models.

UNIT- 2 Introduction to system modeling using ANN and Fuzzy logic. Basic Fuzzy Logic System, Fuzzy Logic based system modeling, Fuzzy Logic based Controller Design. Theoretical and plementation issues.

UNIT - 3 Artificial Neural Netwoks, human brain model, artificial neuron interneuron architecture, types of ANN + feed forward and feedback. Supervised and unsupervised learning.

UNIT - 4 Boltzman Machine, recurrent neural architectures, neural modeling of engineering systems, ANN based controller design, theoretical and implementation issues.
Introduction to neurofuzzy systems and their application to control of complex systems.

References:

1. T.J. Ross ," Fuzzy Logic Control", TM.H. Publications.
2. Drinnkov , "Fuzzy Logic Control", Narosa Publishers.
3. Simon Hekins ,"Comprehensive Neural Networks", Pearson Publications.
4. J.S.R. Jang, C.T. Sun, E. Mizutani,,"Neuro Fuzzy and Soft Computing", P.H.I. Publishers.

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-3.4.2 PLC & Microcontrollers

L	**T**	**P**	**Marks (40 internal, 60 Exam.)**
4	**-**	**-**	**Exam Time 3 hrs.**

UNIT- 1 Logic design, Principle of Operation, Controller, Interfacing circuits, Modbus, Programming examples

UNIT- 2 PLC, Microcontroller

UNIT - 3 Architecture, instruction set, timer, interrupts,

UNIT – 4 I/O port, interfacing A/D converter, I2Cbus operation

References:

1. Programmable Logic controllers : Operation, interfacing and programming by Job Den Otter, PHI
2. Design with PIC Microcontrollers by John B.Peatman, Pearson

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-3.4.3 Computer Aided Design of Electrical Machines

L T P	**Marks (40 internal, 60 Exam.)**
4 - -	**Exam Time 3 hrs.**

UNIT- 1 Review of design processes of transformer and rotating electrical machines.

UNIT- 2 Computer aided design :Advantages, limitation, analysis and synthesis methods, selection of input data, design variables

UNIT - 3 Flow charts for the design of transformer and rotating electrical machines,

UNIT - 4 Introduction of optimization techniques, optimal design of electrical machines.

References:

1. M. Ramamoorthy; "Computer Aided Design of Electrical Equipment", East West Press, New Delhi.
2. Cyril G. Veinott, "Computer Aided Design of Electric Machinery", MIT Press, UK
3. A.K. Sawhney, "A Course in Electrical Machine Design", Dhanpat Rai & Co., Delhi
4. Upadhyay K.G., "Conventional and Computer aided design of electrical machines", Galgotia Publications, New Delhi

NOTE: To the examiner : There will be total eight questions, two from each unit.
The candidate is to answer five questions in all, selecting at least one from each unit.

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Course No. MTEEl-3.5 **Simulation LAB**

L	T	P
-	-	3

Internal : 40 Marks
Practical : 60 Marks
Total : 100 Marks

List of Experiments:

1. To develop a program for solution of a non linear algebric equation using Gauss-Siedal method.
2. Simulation and Analysis of a simple single phase system using Power System Blockset.
3. Simulation of three phase power system using Power System Blockset.
4. Simulation of synchronous machine using Power System Blockset.
5. Simulation of variable frequency induction motor drive using Power System Blockset.
6. Simulation of chopper fed DC motor drive.

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B.A. (ECONOMICS)
Semester-I
PAPER 1 : Microeconomics – I

Max. Marks: 90
Internal Assessment: 10
Time: 3 Hrs.

Note: -The question paper will consist of 9 questions. The candidate will be asked to attempt 5 questions in all selecting one question from each unit. Question 9 shall be compulsory consisting of objective type (filling blanks, true/false, multiple choice) nine questions of two marks each and spread over the entire syllabus. All questions will carry equal marks.

Unit-I

The Economic Problem: Scarcity and Choice, Functions of an Economic System, Circular Flow of Economic Activities, System of Economic Organization, Micro and Macro Economics, Law of Demand, Elasticity of Demand: concept, types, measurement, determinants and importance.

Unit -II

Consumer Theory: Concept of utility, Cardinal utility analysis, marginal and total utility, consumer's equilibrium, Derivation of demand curve, consumer's surplus.

Ordinal Utility Theory: Indifference curves analysis, characteristics, budget line, marginal rate of substitution, Consumer's Equilibrium, Price, income and substitution effects, Derivation of demand curve, Limitations of utility theory of demand.

Unit- III

Producer's behaviour and Supply: Supply, Firm as an agent of production, Law of variable proportions, Returns to scale, characteristics of Iso-quants, Ridge lines, least cost combination of factors, Internal and external economies and diseconomies. Movements and shifts in supply curve, Elasticity of supply.

Unit - IV

Cost Analysis: Concepts of costs, short period costs and long period costs, Modern Theory of costs,

Revenue: Concepts of revenue; total, average and marginal revenue and their relationships, Break-even-analysis & its uses

Books recommended:

1. Paul Samuelson and Nordhaus: Economics, Tata Mcgraw Hill Publishng Compnay, New Delhi.
2. N. Gregory Mankiw: Principles of Economics, Thomson.
3. J.E. Stiglitz and G.E. Walsh: Principles of Economics, W.W. Norton & Co. N.Y.
4. R.G. Lipsey, and KA. Chrystal, Principles of Economics Oxford University Press, Oxford.
5. A. Kousioyionnis , Modern Microeconomics, Macmillan.
6. R.G. Lipsey and KA. Chrystal, Economics, Oxford University Press, Oxford.
7. R. S. Pindyck & D. L. Rubinfeld: Microeconomics, Prentice Hall Series in Economics
8. Walter Nicholsan; Microeconomics Theory; Basic Principles & Extensions, South- Western College.
9. Hal R. Varian Intermediate Microeconomics: A Modern Approach, W. W. Nouton.
10. W. J. Baumol & Alan S. Blinder, "Microeconomics: Principles and Policy" Thomson, India Edition.

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B.A. (ECONOMICS)
Semester-II
PAPER 1: Microeconomics – II

Max. Marks: 90
Internal Assessment: 10
Time: 3 Hrs.

Note: -

The question paper will consist of 9 questions. The candidate will be asked to attempt 5 questions in all selecting one question from each unit. Question 9 shall be compulsory consisting of objective type (filling blanks, true/false, multiple choice) nine questions of two marks each and spread over the entire syllabus. All questions will carry equal marks.

Unit – I

Market Structures, Perfect Competition: Characteristics and assumptions, Price determination under perfect competition, Equilibrium of the firm and industry in the short period and the long period.

Monopoly: Characteristics, Equilibrium of the monopoly firm in short period and long period, Concept of supply-curve under monopoly, Price discrimination, Measure of monopoly power.

Unit-II

Imperfect Market: Monopolistic competition, characteristics, short period and long period equilibrium of the firm, Group-equilibrium, selling costs, product differentiation, excess capacity.

Oligopoly: Characteristics, emergence of oligopoly, cournot's model, Bertrand's model, Price rigidity, Price leadership, Collusive and non-collusive oligopoly.

Unit-III

Market failure: Market efficiency, Reasons for Market failure, Public goods and externalities, transaction costs, asymmetric information, public policy towards monopoly and competition.

Unit-IV

Theory of factor pricing: Marginal productivity theory of distribution, Backward bending supply curve of labour, Ricardian and modern theory of rent, quasi-rent, net and gross interest, theories of interest, net and gross profit, theories of profit.

Books recommended:

1. Paul Samuelson and Nordhaus: Economics), Tata Mcgraw Hill Publishng Compnay, New Delhi.
2. N. Gregory Mankiw: Principles of Economics, Thomson.
3. J.E. Stiglitz and G.E. Walsh: Principles of Economics, W.W. Norton & Co. N.Y.
4. R.G. Lipsey, and KA. Chrystal, Principles of Economics Oxford University Press, Oxford.
5. A. Kousioyionnis , Modern Microeconomics, Macmillan.
6. R.G. Lipsey and KA. Chrystal, Economics, Oxford University Press, Oxford.
7. R. S. Pindyck & D. L. Rubinfeld: Microeconomics, Prentice Hall Series in Economics
8. Walter Nicholsan; Microeconomics Theory; Basic Principles & Extensions, South- Western College.
9. Hal R. Varian Intermediate Microeconomics: A Modern Approach, W. W. Nouton.
10. W. J. Baumol & Alan S. Blinder, "Microeconomics: Principles and Policy" Thomson, India Edition

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3rd Semester BACHELOR OF TECHNOLOGY (TEXTILE TECHNOLOGY)										
S. No.	Subject Code and Name	Teaching Schedule (hrs)				Examination Schedule (Marks)			Total Marks	Duration of Exam
		L	T	P/D	Total	Sessional	Theory	Practical/ Viva-voce		
1	TT-201A: Introduction to Textiles	3	1	---	4	25	50	---	75	3
2	TT-203A: Textile Fibre - I	3	1	---	4	50	100	---	150	3
3	TT-205A: Yarn Manufacturing-I	3	1	---	4	50	100	---	150	3
4	TT-207A: Fabric Manufacturing-I	3	1	---	4	50	100	---	150	3
5	TT-209A: Textile Chemical Processing-I	3	1	---	4	50	100	---	150	3
6	TT-211A: Introduction to Textiles Case Study	---	---	3	3	25	---	25	50	3
7	TT-213A: Textile Fibre - I Lab	---	---	3	3	25	---	25	50	3
8	TT-215A: Yarn Manufacturing-I Lab	---	---	3	3	25	---	50	75	3
9	TT-217A: Fabric Manufacturing-I Lab	---	---	3	3	25	---	50	75	3
10	TT-219A: Textile Chemical Processing-I Lab	---	---	3	3	25	---	50	75	3
Total		**15**	**5**	**15**	**35**				**1000**	

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4th Semester BACHELOR OF TECHNOLOGY (TEXTILE TECHNOLOGY)										
S. No.	**Subject Code and Name**	**Teaching Schedule (hrs)**				**Examination Schedule (Marks)**			**Total Marks**	**Duration of Exam (hrs)**
		L	**T**	**P/D**	**Total**	**Sessional**	**Theory**	**Practical/ Viva-voce**		
1	TT-202A: Yarn Manufacturing-II	3	1	---	4	50	100	---	150	3
2	TT-204A: Fabric Manufacturing-II	3	1	---	4	50	100	---	150	3
3	TT-206A: Textile Chemical Processing-II	3	1	---	4	50	100	---	150	3
4	TT-208A: Textile Testing-I	3	1	---	4	50	100	---	150	3
5	TT-210A: Textile Fibre - II	3	1	---	4	50	100	---	150	3
6	TT-212A: Yarn Manufacturing-II Lab	---	---	3	3	25	---	25	50	3
7	TT-214A: Fabric Manufacturing-II Lab	---	---	3	3	25	---	25	50	3
8	TT-216A: Textile Chemical Processing-II Lab	---	---	3	3	25	---	25	50	3
9	TT-218A: Textile Testing-I Lab	---	---	3	3	25	---	25	50	3
10	TT-220A: Seminar	---	---	3	3	50	---	0	50	3
Total		**15**	**5**	**15**	**35**				**1000**	

Students will undergo a practical training of 6 weeks duration after 4th semester examination

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5th Semester BACHELOR OF TECHNOLOGY (TEXTILE TECHNOLOGY)										
S. No.	Subject Code and Name	Teaching Schedule (hrs)				Examination Schedule (Marks)			Total Marks	Duration of Exam (hrs)
		L	T	P/D	Total	Sessional	Theory	Practical/ Viva-voce		
1	TT-301A: Structure and Properties of Fibres	4	1	---	5	50	100	---	150	3
2	TT-303A: Yarn Manufacturing - III	4	1	---	5	50	100	---	150	3
3	TT-305A: Fabric Manufacturing - III	4	1	---	5	50	100	---	150	3
4	TT-307A: Fabric Structure & Design	4	1	---	5	50	100	---	150	3
5	TT-309A: Statistical Analyses	4	1	---	5	50	100	---	150	3
6	TT-311A: Yarn Manufacturing-III Lab	---	-	3	3	50	---	50	100	3
7	TT-313A: Fabric Manufacturing-III Lab	---	-	3	3	50	---	50	100	3
8	TT-315A: Fabric Structure and Design Lab	---	-	3	3	50	---	50	100	3
9	TT-317A: Vocational Training	---	-	---	---	---	---	---	100	3
Total		**20**	**5**	**9**	**34**				**1150**	

Students will undergo a practical training of 6 weeks duration after 4th semester examination

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6th Semester BACHELOR OF TECHNOLOGY (TEXTILE TECHNOLOGY)										
S. No.	**Subject Code and Name**	**Teaching Schedule (hrs)**				**Examination Schedule (Marks)**			**Total Marks**	**Duration of Exam (hrs)**
		L	**T**	**P/D**	**Total**	**Sessional**	**Theory**	**Practical/ Viva-voce**		
1	TT-302A: Theory of Textile Structure	3	1	---	4	50	100	---	150	3
2	TT-322: Textile Testing-II	3	1	---	4	50	100	---	150	3
3	TT-306A: Garment Technology	3	1	---	4	50	100	---	150	3
4	TT-308A: Knitting Technology	3	1	---	4	50	100	---	150	3
5	TT-310A: Computer Aided Fabric Manufacturing	2	1	---	3	25	50	---	75	3
6	TT-324: Multi Fibre Spinning	3	1	---	4	50	100	---	150	3
7	TT-314A: Garment Technology Lab	---	---	3	3	50	---	50	100	3
8	TT-316A: Knitting Technology Lab	---	---	2	2	25	---	25	50	3
9	TT-318A: Computer Aided Fabric Manufacturing Lab	---	---	3	3	25	---	50	75	3
10	TT-326: Textile Testing-II Lab	---	---	3	3	50	---	50	100	3
Total		**17**	**6**	**11**	**34**				**1150**	

Students will undergo a practical training of 6 weeks duration after 4th semester examination

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7th Semester BACHELOR OF TECHNOLOGY (TEXTILE TECHNOLOGY)										
S. No.	Subject Code and Name	Teaching Schedule (hrs)				Examination Schedule (Marks)			Total Marks	Duration of Exam (hrs)
		L	T	P/D	Total	Sessional	Theory	Practical/ Viva-voce		
1	TT- 401A: Technical Textiles I	4	1	---	5	50	100	---	150	3
2	TT- 415: Fundamentals of Management	4	1	---	5	50	100	---	150	3
3	TT- 417: Advanced Chemical Processing	4	1	---	5	50	100	---	150	3
4	Elective I	3	1	---	4	50	100	---	150	3
5	Elective II	3	1	---	4	50	100	---	150	3
6	TT- 407A: Advanced Chemical Processing Lab	---	---	3	3	50	---	50	100	3
7	TT- 409: Project I	---	---	6	6	100	---	100	200	3
8	TT- 411: Seminar	---	---	3	3	50	---	---	50	3
9	TT- 413: Summer Training Report	---	---	---	---	75	---	---	75	3
Total		**18**	**5**	**12**	**35**	**525**	**500**	**150**	**1175**	

Elective I										
S. No.	Subject Code and Name	Teaching Schedule (hrs)				Examination Schedule (Marks)			Total Marks	Duration of Exam (hrs)
		L	T	P/D	Total	Sessional	Theory	Practical/ Viva-voce		
1	TT-425: Process Control in Spinning	3	1	---	4	50	100	---	150	3
2	TT- 405A: Process Control in Chemical Processing	3	1	---	4	50	100	---	150	3

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Elective II										
S. No.	Subject Code and Name	Teaching Schedule (hrs)				Examination Schedule (Marks)			Total Marks	Duration of Exam (hrs)
		L	T	P/D	Total	Sessional	Theory	Practical/ Viva-voce		
1	TT- 433: Process Control in Garment	3	1	---	4	50	100	---	150	3
2	TT- 435: Process Control in Weaving	3	1	---	4	50	100	---	150	3

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8th Semester BACHELOR OF TECHNOLOGY (TEXTILE TECHNOLOGY

S. No.	Subject Code and Name	Teaching Schedule (hrs)				Examination Schedule (Marks)			Total Marks	Duration of Exam (hrs)
		L	T	P/D	Total	Sessional	Theory	Practical/ Viva-voce		
1	TT-402A: Technical Textile II	4	1	---	5	50	100	---	150	3
2	TT-404A: Textile Costing	4	1	---	5	50	100	---	150	3
3	TT-406A: Management of Textile Production	4	1	---	5	50	100	---	150	3
4	Elective III	3	1	---	4	50	100	---	150	3
5	Elective IV	3	1	---	4	50	100	---	150	3
6	TT-408: Project II	---	---	9	9	100	---	100	200	3
7	TT-410: Seminar	---	---	3	3	50	---	---	50	3
8	TT- 412: Comprehensive Viva-voce	---	---	---	---	75	---	---	75	---
9	TT-414: General Fitness for the Profession	---	---	---	---	---	---	100	100	3
Total		**18**	**5**	**12**	**35**	**475**	**500**	**200**	**1175**	

Elective III

S. No.	Subject Code and Name	Teaching Schedule (hrs)				Examination Schedule (Marks)			Total Marks	Duration of Exam (hrs)
		L	T	P/D	Total	Sessional	Theory	Practical/ Viva-voce		
1	TT-426: High Performance Fibres	3	1	---	4	50	100	---	150	3
2	TT-428: Industrial Engineering	3	1	---	4	50	100	---	150	3

Elective IV

S. No.	Subject Code and Name	Teaching Schedule (hrs)				Examination Schedule (Marks)			Total Marks	Duration of Exam (hrs)
		L	T	P/D	Total	Sessional	Theory	Practical/ Viva-voce		
1	TT-434: Nonwoven Technology	3	1	---	4	50	100	---	150	3
2	TT-436: Processing of Man Made Fibres and Blended Textiles	3	1	---	4	50	100	---	150	3

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TT-201A
INTRODUCTION TO TEXTILES

L	T	P
3	1	-

Sessional: 25 Marks
Exam: 50 Marks
Total: 75 Marks
Time: 3Hrs

Note:
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit**.** Question no. 1 is compulsory. It is objective type 10 questions of multiple choices covering the entire four units.

UNIT-I
Textile Industry
Sectors of textile industry viz, organized mill sector, decentralized small-scale sector.
Sectors based on technology: Handloom, Powerloom, Garment, Cotton, Silk, Wool, Jute and Symthetic Fibers.
Indian cotton: production, quality and global competition.

UNIT-II
Changing scenario of Indian Textile Industry in the wake of WTO Agreement.
Strengths and weaknesses of the Indian Textile Industry in the global scenario.
Research and technology support to the Indian Textile Industry.

UNIT-III
Textile Technology
Introduction to fiber, yarn, fabrics.
Sequence of operation for conversion of natural and manmade fibers into finished fabrics.
Fabric construction technology: knitting, weaving and production of non-wovens.

UNIT-IV
Fabric to garment, Importance of Design.
Quality aspects of yarns, fabrics and garments.
Processing and finishing of fabric and garments.

Suggested Text Books & References:

1. Corbmann, ”Textiles Fibre to Fabric”, New York Mc Graw Hill Book Co.,1983.
2. “Cotton Spinning”, ATIRA Publication, Ahmedabad.
3. Aswani,K.T., ”Plain Weaving Motions”, Mahajan Book Publishers,1996.
4. Shenai,V.A., ”Fundamental Principles of Textile Processing”, Sevak Publisher.

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TT-203A
TEXTILE FIBRE – I

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 Hrs.

Note:
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit**.** Question no. 1 is compulsory. It is objective type 10 questions of multiple choices covering all the four units.

UNIT I
Fibre, textile fibre, Classification of textile fibres, Essential and desirable properties of textile fibres,
Cotton - cultivation and harvesting Practices, ginning, grading, baling, Physical and chemical properties of cotton fibre.

UNIT II
Cultivation, Production, morphological structure, physical and chemical properties and end uses of: Flax, Jute and Ramie.

UNIT III
Production of silk (raw), Morphological structure of silk, chemical composition, physical and chemical properties of silk, various varieties of silk with brief description.

Wool - Sheep rearing, wool shearing, grading baling, Morphological structure, physical and chemical properties of wool.

UNIT IV
Polymer system, physical and chemical properties and application of various man-made and regenerated fibres such as: viscose, polyester, polyamide, acrylic, polypropylene, elastomeric fibres (Spandex).

Suggested Text Books & References:

1. Moncriff, W., “Textile Fibres”.
2. Murthy, H.V.S., “Textile Fibres”.
3. Morton, M. and Hearle, J.W.S., “Physical properties of Textile Fibres”, Textile Institute, Manchester.
4. Marjoury Joseph, ‘Introduction of Textiles”.

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TT-205A
YARN MANUFACTURING-I

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note:
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit**.** Question no. 1 is compulsory. It is objective type 15 questions of multiple choice covering all the four units and 5 short answer type questions.

UNIT-I
Mixing & Blending

Objectives of mixing and blending, Formulation of cotton mixing – scientific bale management, Different Blending methods with their advantages and disadvantages,Tinting & Application of additional spin finish for manmade fibres.

UNIT-II
Opening and Cleaning

Need for opening and cleaning, Objective of blowroom, Various types of opener and cleaner – construction and working, Lap forming mechanism, Blow room accessories, Selection of blow room line for different cotton and man-made fibres, Production and cleaning efficiency level attainable in blowroom, Causes of lap defects and their remedies, Modern developments in blowroom.

UNIT-III
Carding

Objective, Comparison of lap feed and flock feed system. Principle of carding, stripping and brushing action, Design and construction of carding machine, Flexible and metallic card clothing, Processing of man-made fibres on carding, Optimization of process and machine parameters of carding, Autolevelling in card. Modern developments in carding, Calculations pertaining to draft and production.

UNIT-IV
Drafting

Objective, Fundamental concept of Ideal drafting, Actual drafting, Working principles of draw frame including constructional details, Weighting in draw frame, Draft distribution, Different types of drafting roller arrangements, Relation between drafting & doubling, Drafting irregularities, Autolevelling, modern developments in draw-frame, Calculations pertaining to draft and production.

Suggested Text Books & References:

1. Klein, W., “Manual of Textile Technology: Vol. I. Technology of Short Staple Spinning”, – Textile Institute, Manchester, 1998.
2. Klein, W., “Manual of Textile Technology: Vol. II. A practical Guide to Blowroom & Carding”, – Textile Institute, Manchester, 2000.
3. Klein, W., “Manual of Textile Technology: Vol. III. A practical Guide to Combing & Drawing”, – Textile Institute, Manchester, 1995.
4. Klein, W., “Manual of Textile Technology: Vol. VI. Manmade Fibres and their Processing”, – Textile Institute, Manchester, 1994.
5. Oxtoby E, “Spun Yarn Technology”, Butterworths, London, 1987.

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6. Salhotra, K.R.and Chattopadhayay (Eds.), R., “Course Material of Pilot Programme on Spinning : Blowroom and Card”, NCUTE Publication, 1998.
7. Salhotra K R, “Spinning of Man Made Fibres and Blends on Cotton Spinning System”,The Textile Association, Mumbai, 1989.
8. Foster G A R, “Manual of Cotton Spinning”, Vol. I –IV, The Textile Institute,
9. Manchester, 1958.
10. Khare A R, “Elements of Blowroom, Carding and Drawframe”, Sai book Centre,
11. Mumbai,1999.
12. Zaloski, S., “The Institute of Textiles Technology USA series on Textile Processing – Vol. I. Opening, Cleaning and Picking”.
13. Taggart, W., “Handbook of Cotton Spinning” Universal Publishing Corporation, 1979.
14. Coulson (Ed.), A.F.W., “Manual of Cotton Spinning, Vol. I to IV”, Textile Institute, Manchester, 1989.
15. Happey (Ed.), F., “Contemporary Textile Engineering”, Academic Press, New York, 1981.
16. Lawrence C A, “Fundamental of Spun Yarn Technology” CRC Press, USA,2003.
17. Booth J E, “Textile Mathematics”, Part II, Textile Institute, Manchester, 1978.

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TT-207A
FABRIC MANUFACTURING-I

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note:
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit**.** Question no. 1 is compulsory. It is objective type 15 questions of multiple choice covering all the four units and 5 short answer type questions.

UNIT-1

Warp Winding
Object of warp winding, requirement of a good package, Basic features of a winding machine, Yarn withdrawl-side withdrawl, overend withdrawl, yarn tensioner, additive type tensioner, multiplicative type, combined type, yarn clearers, mechanical yarn clearer, electronic yarn clearer, yarn faults, uster classimate yarn fault measuring system, yarn rejoining techniques- knotting, splicing, classification of splicing, pneumatic splicing, classification of winding machines, random winding machine, principle, advantage and disadvantage of random winding, precision winding, principle, advantage and disadvantage of precision winding, angle of wind, coil angle, traverse ratio, coil pattern on the package, patterning and its remedy basic features of automatic winding machines, stop motions in winding machine, types of warp packages, types of package build calculation related to production and efficiency,

Pirn Winding
Objectives, Difference between warp winding and weft winding, yarn path on pirn winding machine, basic feature of pirn winding, difference in traverse mechanism in warp and weft winding , calculation related to production and efficiency.

UNIT-2

Warping
Object of warping process, classification of warping, creels used for warping process, beam warping, calculation related to beam warping, sectional warping, beaming, head stotck, relation between section height and cone angle, drum storage capacity, calculations related to sectional warping, various controls on warping machines, calculations related to production and efficiency.

UNIT-3

Sizing
Objectives, stresses on warp yarn during weaving, classification of sizing process, sizing parameters-size concentration, size percentage, size add-on, features of conventional slasher sizing machine, creels for sizing process, size boxes, drying section- single cylinder dryer and multi cylinder dryer, infrared dryers, head stock, controls on sizing machine, sizing materials, size preparation. Starch, modification of starch, polyvinyl alcohol, carboxyl methyl cellulose, acrylics, binders, lubricants and other additives, sizing of spun yarns, sizing of filament yarn, developments in sizing, single end sizing, cold and pre wet sizing, foam sizing, sinter roller sizing. Calculation related to sizing parameters, production and efficiency.

UNIT-4

Drawing-In
Object of drawing in, different types of heald wires, different types of drop wires, reed, reed count, drawing in order of plain weave, drawing in order of twill weave, drawing in order of satin weave, automation in drawing in, knotting and gaiting. Calculation related to reed count, and drafting plan.

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Suggested Text Books & References:

1. Talukdar, M.K., “An Introduction to Winding and Warping”, Textile Trade Press, Mumbai.
2. Ajgaonkar, D.B., “Sizing, Materials, Methods and Machines”, Textile Trade Press, Mumbai, 1982.
3. Banerjee, P.K., “Industrial Practices in Yarn winding”, NCUTE Publication, 1999.
4. Ramsbottom, “Warp Sizing Mechanisms”, Columbia Press, Manchester, 1965.
5. Ormerod, A., “Modern Preparation and Weaving Machinery”, Butterworths, 1983.
6. Aitken,”Automatic Weaving”, Columbia Press, Manchester, 1969.
7. Bennet, G.A., “An Introduction to Automatic Weaving”, Columbia Press, Manchester, 1958.
8. Gorder, V and Volkov, P., “Cotton Weaving”, Mir Publications, Moscow, 1987.
9. Sengupta, R., “Yarn Preparation Vol.-I & II”, Mahajan Publishers, Ahmedabad, 1970.
10. Singh, R.B.,”Modern Weaving Calculation, Vol-I Preparatory”, Mahajan Book Distributor, Ahmedabad, 1994.
11. SITRA Report on Work Methods of Conewinder Tenters.
12. BTRA Report on Winding.
13. BTRA Report on Warping and sizing.
14. Lord and Mohemad,”Conversion of Yarn to Fabric”.
15. Hougton,” Hand Book of Cotton Warp Sizing”.

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TT-209A
TEXTILE CHEMICAL PROCESSING - I

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note:
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit**.** Question nc o. 1 is compulsory. It is objective type 15 questions of multiple choice covering all the four units and 5 short answer type questions.

UNIT-1

Introduction: Sequence of chemical processing of textiles. Natural and added impurities in textiles.
Preparatory Processes:
Singeing: Objective, types of singeing, details of various singeing methods with advantages and disadvantages. Evaluation method. Singeing machines.
Desizing: Objective, types, method details and mechanism of removal of starch in various methods. Efficiency of desizing.
Scouring: Objectives, mechanism of removal of impurities, recipe and controlling parameters involved. Scouring of natural, manmade and blended textiles. Evaluation of scouring efficiency. J-Box and kier machines.

UNIT-2

Bleaching: Objectives of bleaching. Hypochlorite, peroxide, chlorite and peracetic acid bleaching methods and their mechanism of action. Controlling parameter involved. Efficiency of bleaching.
Mercerization: Objectives, mechanism related to various physical and chemical changes in cotton during mercerisation. Process parameters involved in each method. Assessment of efficiency of mercerization: Barium activity number, its determination and interpretation. Different types of Mercerising machines.
Heat setting: Objectives and mechanism of heat setting. Different methods of heat setting and their effectivenes. Heat setting conditions and controls. Heat setting of polyester, nylon, acetate and their blends. Evaluation of degree of heat setting.

UNIT-3

Dyeing of textiles: Dyeing technology of natural and manmade textiles with Direct, Reactive, Vat, Insoluble Azoic, Sulphur, Solubilised vat, Acid, Metal-complex, Basic and Disperse dyes.
Dyeing machineries: Loose fibre, yarn and package dyeing machines. Jigger, winch, jet and HTHP beam dyeing m/cs. Padding mangles.

UNIT-4

Wool Processing: Wool setting and milling. Mildew, rot and moth proofing of wool.
Silk Processing: Degumming, Silk Finishing: Weighting of silk and Scroop finish.

Suggested Text Books & References:

1. Shenai,V.A.,"Technology of Textile Processing Vol. 2,3,4,6 and 10",Sevak Publisher,Bombay.
2. Marsh,J.T.,"Mercerising",Chapman Publication,London.
3. Marsh,J.T.,"An Introduction to Textile Finishing",Chapman Publication,London.
4. Trotman,E.R.,"Textile Technology and Dyeing of Textile Fibres",Griffin Publication,London.
5. Shenai,V.A.,"Principle and practice of Dyeing",Sevak Publisher,Bombay.

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6. Shenai,V.A.,"Fundarmentals of Principles of Textile Wet processing",Sevak Publisher,Bombay.
7. Datye,K.V.and Vaidya,A.A.,"Chemical processing of Synthetic Fibres and Blends",Wiley Publication,New York.
8. Peter,R.H.,"Textile Chemistry Vol.2",Elsevier Publishing London.
9. Marsh,J.T."Textile Science",Chapman London.
10. Garde,A.R.and Modi,"Chemical Processing of Cotton and polyester Blend",ATIRA.Ahmadabad.
11. "Wet processing",ATTA Set,Textile Association of India.
12. Prayag.C.R.,"Dyeing of silk and Manmade Fibre".
13. Prayag,C.R.,"Bleaching,Mercerising and Dyeing of Cotton".

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TT-211A
INTRODUCTION TO TEXTILES CASE STUDY

L	T	P
-	-	3

Practical/viva: 25 marks
Sessional: 25 marks
Total: 50 marks

Duration of Exam: 3Hrs

Guidelines for Case Study

1. A report on organized Mill sector comprising its advantage, disadvantage and function.
2. A comprehensive description of the decentralized Sector.
3. A report on the Textile Technology based Handloom, power loom, Garment, Natural Fiber and Synthetic Fiber.
4. A graphic account on Production Quality.
5. Give a brief description of the difference phases of Textile industry in the wake of WTO.
6. Point out the advantage and disadvantage of Textile Industry borne in mind the accelerated growth of textile techniques in the global market.
7. An essay on Research and Technical support provided by the Indian government to Textile Industry.
8. Elaborate the process of conversion of fiber to fabric.
9. Write down the importance of Quality Expectations pertaining to yarn fabric and Garment.
10. Describe the various techniques employed in knitting weaving and production of Composite fabric.

Sources

1. DU Library
2. National Library, N. Delhi
3. IIT Library, N. Delhi
4. Internet Surfing
5. PITE Library
6. Visit to Industry

Note: Students have to select two topics from above list and study extensively on it. Then a report is formed which will be evaluated.

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TT-213A
TEXTILE FIBRE - I LAB

L	T	P
-	-	3

Practical/viva: 25 marks
Sessional: 25 marks
Total: 50 marks

Duration of Exam: 3 Hrs

1. Identification of Cotton / Silk / Wool / Jute / Others Fibres using relevant instrument by physical methods.
2. Identification of Cotton / Silk / Wool / Jute / Others Fibres using relevant instrument by Chemical Methods.
3. Identification of Man made Fibres by Physical Methods
4. Identification of Man made Fibres by Chemical Methods.
5. Study and determine the TRASH contamination in the raw materials namely cotton.
6. Identification of different type of Dyes and Finishes from application technique & properties point of view.
7. A report on the sourcing & procurement of the textile raw material.
8. Prepare a cost comparison statement of at least
   (a) six fibres
   (b) six dyes
   (c) six textile auxiliaries
   (d) six chemicals.
9. Determination of Moisture Content & Moisture Regain of Material.
10. Determination of vegetable matter content, wax & Greece content of wool by Soxhlet method.
11. Determination of fiber length properties of cotton by using Comb Sorter & compare with the manual grading from ginning.
12. Determination % of medullation of wool using projection microscope.
13. Study the longitudinal & cross-sectional view of fiber.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Ghaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-215A
YARN MANUFACTURING-I LAB

L	T	P
-	-	3

Practical/viva: 50 marks
Sessional: 25 marks
Total: 75 marks
Duration of Exam: 3 Hrs

Mixing

1. To study the different techniques of Mixing and Blending.

Opening & Cleaning

2. Study of general outline of opener and clearer machine employed in a modern Blowroom line.

3. Calculation of speeds of different machine parts for Cotton and Synthetic fibres, Blow/inch of Kirschner beater, Production calculation of blow room.

Carding

4. To illustrate the working principle of carding machine.
5. To study the change places and speed of different parts of a carding machine for Cotton and Synthetic fibres.
6. Calculation of the speed, individual draft & total draft and production of carding machine.

Drawframe

7. To study the working principle and important settings of drawframe machine.
8. Calculation of the total draft and its distribution in draw frame machine.
9. Study of drafting arrangement and top roller weighting system of draw frame machine.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Ghaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-217A

FABRIC MANUFACTURING-I LAB

L	T	P
-	-	3

Practical/viva: 50 marks
Sessional: 25 marks
Total: 75 marks

Duration of Exam: 3 Hrs

Winding

1. To show different types of winders for single and Ply Yarn Final Packages.
2. Specification for all count range and material range, functions of all parts.
3. Cheese windings-Need and working.
4. To show the difference in packages needed for warping machines.

Warping

5. To show different type of warping machines used for different type of material and quality of fabric to be prepared. Functions of all parts.

Pirn Winding

6. To show working, functions of different types of Pirn Winding Machine.
7. Difference between cone winding and pirn winding.

Sizing

8. To show working explaining functions of different parts.
9. Different types of sizing materials used for different fibers.

Drawing In

10. To show different type of machines and use for different fabric design.

Calculation

11. To demonstrate actual use of weaving calculations in day-to-day use in different machines.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Ghaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-219A
TEXTILE CHEMICAL PROCESSING- I LAB

L	T	P
-	-	3

Practical/viva: 50 marks
Sessional: 25 marks
Total: 75 marks

Duration of Exam: 3 Hrs

1. Desizing of cotton fabric using various types of desizing agents.
2. Scouring of Natural fibre in the form of yarn and fabric and find the scouring loss.
3. Scouring of Polyester/ Cotton /Blends and Wool.
4. Degumming of Silk and calculation of weight loss percentage.
5. Bleaching of Natural fibre namely Cotton, jute with
   (a) Hyperchloride Bleaching
   (b) Peroxide Bleaching
6. Bleaching of Polyester /Cotton Blend.
7. Determination the pH value of a given material.
8. Determination of transmittance, absorbance and concentration of given dye liquor by visible spectrophotometer.
9. Dyeing of cotton yarn with direct dyes, reactive dyes and basic dyes
10. Dyeing of wool with direct dyes, basic dyes, and acid dyes.
11. Method of mordanting in respect of application of different fibre.
12. Extraction method of color from different color dyes.
13. Study the mechanical finishing and understand the mechanism of mechanical finishing.
14. Understand the color difference in AATCC grey scale (1-5) between standard and batches
    (I) Manully with the comparison of grey scale, and
    (II) by computer color matching machine
    and interpretation of color sprectograph.
15. Print Different Material with relevant methods and style.
16. To do finishing of all type of materials using different chemicals and methods.
17. Effect to Heat Setting on Synthetic Materials.
18. To conduct practicals as per latest technology/material.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Gaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-202A
YARN MANUFACTURING-II

L T P
3 1 -

Sessional : 50 Marks
Exam :100 Marks
Total:150 Marks
Time : 3 hrs

Note :
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit**.** Question no. 1 is compulsory. It is objective type 15 questions of multiple choice covering all the four units and 5 short answer type questions.

UNIT-I
Combing
Objective, Different combing preparatory process for lap preparation – Sliver lap, Ribbon lap and Unilap machine, Different types of comber, Combing cycle of rectilinear cotton comber, Timing diagram for combing operation, Configuration of fibre feed and its effect on quality of product, noil percentage and fractionation efficiency of comber, Influence of type of feed on noil extraction and cleanliness of sliver, Calculation pertaining to draft, production and noil percentage.

UNIT-II
Speed frame
Objective, Working principle of speed frame, Construction and working of important parts, Mechanism of drafting, twisting and winding, Basic principle of designing of cone drum, Differential motions & Building motions, Common defects in roving packages, their causes and remedies, Processing of man-made fibres on speed frame , Recent development in speed frame. Calculations pertaining to draft, TPI and production, twist multiplier and roving twist.

UNIT-III
Ring frame
Objective, Principle and mechanism involved in drafting, twisting and winding, Ordinary and high draft systems, Rising and falling lappets, balloon control rings, Design and types of spindle, ring and traveler, Concept of twist multiplier and yarn contraction due to twisting, types of builds, Mechanism of package formation, Causes and remedies to control end breaks, Recent developments in ring frame, Concept of average mill count and 20's conversion.

UNIT-IV
Doubling
Objective and terminology, Requirement of feed package for yarn plying, Systems of doubling (dry &wet) study of ring doublers, Two for one twister (TFO)- objective & working principle, Calculation of draft, TPI and production of ring frame & doubling frame.

Suggested Text Books and References:

1. Klein, W., "Manual of Textile Technology: Vol. I. Technology of Short Staple Spinning", – Textile Institute, Manchester, 1998.
2. Klein, W., "Manual of Textile Technology: Vol. III. A practical Guide to Combing & Drawing", – Textile Institute, Manchester, 1995.
3. Klein, W., "Manual of Textile Technology: Vol. IV. A practical Guide to Ring Spinning", – Textile Institute, Manchester, 1995.
4. Klein, W., "Manual of Textile Technology: Vol. VI. Manmade Fibres and their Processing", – Textile Institute, Manchester, 1994.

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5. Salhotra K R, “Spinning of Man Made Fibres and Blends on Cotton Spinning System”,The Textile Association, Mumbai, 1989.
6. Salhotra, K.R., Alagirusamy, R. and Chattopadhayay (Eds.), R., “Course Material of Pilot Programme on Spinning: Ring Spinning, Doubling and Twisting”, NCUTE Publication, 2000.
7. Chattopadhyay, R., and Rengasamy(Eds.), R., “Course Pilot Programme on Spinning: Drawing Combing and Roving”, NCUTE Publication, 1999..
8. Oxtoby, E. “Spun Yarn Technology”. Butterworths, London.
9. Khare A R, “Elements of Combing”, Sai book center, Mumbai, 1999.
10. Khare A R “Elements of Ring Frame and Doubling”, Sai book Centre, Mumbai, 1999.
11. Lawrence C A, “Fundamental of Spun Yarn Technology” CRC Press, USA,2003.
12. Booth J E, “Textile Mathematics”, Part II, Textile Institute, Manchester, 1978.

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TT-204A
FABRIC MANUFACTURING – II

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3Hrs

Note :
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit. Question no. 1 is compulsory. It is objective type 15 questions of multiple choice covering all the four units and 5 short answer type questions.

UNIT-I
Basic Concepts
General loom elements, classification of looms, primary motions of loom.
Tappet shedding
Negative tappet shedding, eccentric motion of shedding, designing of a shedding tappet, movements of healds, geometry of warp shed, calculation of the stroke of shedding tappet, Possitive tappet shedding- link mechanism,
Heald reversing motion,shedding motion principles-open shed, closed shed, semi open shed,Loom timing diagram, early shedding, late shedding,split sheddingor stragerring of shed, Assymetric shedding, lease rods, back rest, effect of shed timing and back rest settings on properties of fabrics.

Shuttle Picking
Function of picking, essential features of good picking, over picking, under picking- cone under picking mechanism, disadvantages of shuttle picking, Shuttle box and shuttle checking device.
velocity and acceleration of picking elements, energy consumed, power of picking
Factors affecting the initial speed of shuttle, nominal movement of shuttle, theory of picking, picking cams- linear cam, parabolic cam, Factors affecting retardation of shuttle, Weft tension during propulsion and retardation of shuttle.

Beating
Function of beating. Kinematics of sley, sley eccentricity ratio, reed drive by matched cams, accelerating force on sley, mechanics of beat up, relation between cloth fell position and beat up force, relation between pick spacing and beat up force, relation between cloth fell position and pick spcacing, bumping of loom, effect of yarn irregularity on pick spacing,

UNIT-II
Secondary and auxillary motions of loom,
Secondary motion
Take up motion- negative take up, positive take up, five wheel take up motion, seven wheel take up motion, electronic take up.

Let Off Motion:
Objective, negative let off motion, positive let off motion- basic requirements, tension control mechanism, electrical let off motion, warp tension variation.

Auxilliary motions of loom,
Objective, classification
Weft Stop motion: objective, side weft fork motion, centre weft fork motion
Warp Stop motion: objective, mechanical warp stop motion, electrical warp stop motion,
Warp Protecting motion: objective, loose reed warp protecting motion, fast reed warp protecting motion, electromagnetic warp protecting motion.

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Unit III

Automatic looms- basic features, advantages over plain looms, classification of automatic looms, weft feeling mechanism, mechanical weft feeler, electronic weft feeler, optical weft feeler, pirn changing mechanism, shuttle changing mechanism, bobbin loader mechanism.

Weft mixing motion, Mutiple box motion,4X1 drop box motion, preparation of pattern cards, pick at will motion.

Unit IV

Dobby Shedding

Main parts of dobby loom, types of Dobby, negative dobby, single, double lift single jack dobby, double lift double jack dobby, design and peg plan for dobbies, positive dobby, electronic dobby, types of shed formed in dobby

Jacquard Shedding:

Principle parts of jacquard machine, types of jacquard, types of shed formed in jacquard, single lift single cylinder jacquard, double lift single cylinder jacquard, double lift double cylinder jacquard, harness building, harness ties, design ties, card cutting, card lacing

Suggested Text Books & References

1. Marks and Robinson,"Principles of Weaving".Textile Institute,Manchester,1986.
2. Thomas fox,"Mechanism of Weaving",Bombay Universal Publishing Co,1993.
3. Lord and Mohemad,"Conversion of Yarn to Fabric",Merrow Publishing Co.Ltd, England,1988.
4. Aswani,K.T.,"Plain Weaving Mechanism",Mahajan Publishers,Ahmedabad,1996.
5. Aswani,K.T.,"Fancy Weaving Mechanism",Mahajan Publisher,Ahmedabad,1990.
6. Sengupta,R.,"Weaving Calculations",Taraporwala Sons,Bombay 1990.
7. Banerjee,N.N.,"Weaving Mechanism Vol,-I & Vol.II",West Bengal,1994.
8. Rai,Hasmukh,"Fabric Forming",S.S.M.Institute,Kuomarapalyam Tamil Nadu,1996.
9. Talukdar,M.K.,"Modern Weaving Technology",NICTAS,Ahmedabad,1998.
10. Rapier Looms,WIRA Research & Technical Service Manual for industry.
11. Kharwani,P.A.,"Weaving I shuttle looms",NCUTE Publication,1999.
12. Khatwani,P.A.,"Weaving II Shuttleless Looms",NCUTE Publication,1999.
13. Khatwani,P.A."Filament Weaving",NCUTE Publication,2000.

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TT-206A
TEXTILE CHEMICAL PROCESSING - II

L	T	P
3	1	-

Sessional: 50 marks
Exam: 100 marks
Total: 150 marks
Time: 3Hrs

Note:
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit. Question no. 1 is compulsory. It is objective type 15 questions of multiple choice covering all the four units and 5 short answer type questions.

UNIT-1

Printing: Introduction to printing methods Block, screen and roller printing. Advantages and disadvantages of each method. Various styles of printing like Direct, Discharge and Resist styles on natural, man-made and blended textiles. Ingredients of print paste with their details. Classification and mechanism of working of thickeners.

Transfer Printing: Types, mechanism of transfer printing and machineries.

Pigment Printing: Mechanism and recipe details of pigment printing.

UNIT-2

Finishing:

Mechanical Finishes: Calendaring - its types, construction and function of various calendaring m/cs. Sanforizing - method, mechanism and machineries involved. Sueding /raising, Napping and Shearing finishes. Foam finishing technology.

Chemical Finishes: Problem of creasing, anti-crease finish on cotton. Drawback and advantages associated with use of various anti-crease chemicals. Water repellency and water repellent finishes on cotton. Evaluation of water repellency. Flame proofing and its evaluation. Softeners and their application.

UNIT-3

Developments in preparatory and dyeing: Continuous pre-treatment and Continuous dyeing. Mass coloration principle, technology and different methods. Problems in dyeing and their solutions. Tie and dye, Batik printing.

UNIT-4

Identification of dye on dyed natural and manmade textiles.

Ecofriendly processing and Effluent generated from textile processing and its treatment.

Fastness properties: Light fastness, Rubbing fastness, Sublimation fastness, Perspiration fastness, Washing fastness properties evaluation.

Suggested Text Books and References

1. Shenai, V.A., “Technology of Textile Processing Vol. 2,3,4,6, and 10”, Sevak Publisher, Bombay.
2. Marsh, J.T., “Mercerising”, Chapman Publication, London.
3. Marsh, J.T., “An Introduction to Textile Finishing”, Chapman Publication, London.
4. Trotman, E.R. “Textile Technology and Dyeing of Textile Fibres”. Griffin Publication, London.
5. Shenai, V.A. “Principle and Practice of Dyeing”, Sevak Publisher, Bombay.
6. Shenai, V.A. “Fundamentals of Principles of Textile Wet Processing”, Sevak Publisher, Bombay.
7. Datye, K.V. and Vaidya, A.A., “Chemical Processing of Synthetic Fibres and Blends”, Wiley Publication, New York

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8. Peter, R.H., “Textile Chemistry Vol. 2”, Elsevier Publishing, London.
9. Marsh, J.T., “Textile Science”, Chapman, London
10. Garde, A.R. and Modi, “Chemical Processing of Cotton and Polyester Blend”, ATIRA, Ahmedabad.
11. Prayag, C.R., “Dyeing of Sild and Manmade Fibre”.
12. Prayag, C.R., “Bleaching, Mercerising and Dyeing of Cotton”.
13. Vankar, Padma, “Textile Effluents”, NCUTE Publication, 2001

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TT-208A
TEXTILE TESTING -I

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note :
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit**.** Question no. 1 is compulsory. It is objective type 15 questions of multiple choice covering all the four units and 5 short answer type questions.

Unit I:
Sampling Methods and Moisture Calculation
Introduction of textile testing, Reason for Testing, standardization of testing, sampling, sampling techniques, square, cut square, zoning technique, Routine sampling techniques used in the textile industry.
Moisture: - effect of moisture or physical properties regain and content, correct invoice wt, Atmospheric conditions for testing, Control of testing room atmosphere, moisture regain & moisture content, importance of moisture in textiles, measurement of moisture regain & content, effect of moisture on properties (physical & mechanical) of textile material, factors affecting the regain, shriley moisture meter.

Unit II:
Cotton Fibre Testing
Fibre Dimension: fibre fineness, fineness measurement, fibre length, method of measurement: direct method high volume instrument, advance fibre information system Grading of cotton fibre with respect to staple length, laboratory measurement of fibre length, span length,Baer sorter, servo fibro graph, maturity coefficient measurement by NaOH method, fibre fineness by airflow meter. Fibre bundle strength by Pressley, stelometer, determination of trash content: Shirley trash analyzer.
Fibre quality index, salient features of HVI, AFIS, Nep count.
Wrapping test for lap, sliver and roving.

Unit III:
Yarn Evenness Testing
Yarn testing, Linear density,
Yarn numbering systems, conversion methods, and measurement of yarn number.
Twist, classification of twist, twist measurement, Twist, Measurement of twist in continuous filament spun and plied yarns.
Evenness testing of yarns. Nature and causes of irregularities, principles and methods of evenness testing: evaluation and interpretation of evenness measurements. Measurement of sliver and yarn unevenness, Capacitative and optical principle of measuring unevenness, salient features of Uster evenness tester, yarn imperfections and classimat yarn faults.

Unit IV:
Yarn Tensile Testing
Strength and elongation test, Definition, force- elongation curve, Factor affecting tensile testing, Fibre strength and Yarn strength.
Various terms related to tensile testing, stress-strain curve, various methods for finding the yield point, Application of tensile force by CRL, CRE and CRT method, various principles (pendulum lever, balance principle, inclined plane, strain gauge principle, etc) to apply tensile load on textile specimen.
Yarn testing machines- single yarn strength tester, Uster, Instron testing machine, lea strength testing.
Hairiness: Determination of yarn hairiness.

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Suggested Text Books & References:

1. Booth, J.E., "Principles of Textile Testing", Butterworths, London
2. Quality control and testing management by Dr. V.K. Kothari
3. Slater, "Textile Progress – Physical Testing and Quality Control", Textile Institute, Manchester
4. "Handbook of Methods of Tests for Cotton Fibres, Yarns and Fabrics", CTRL, Bombay
5. "Cotton Assessment and Appreciation", SITRA Report, Coimbatore.
6. Savile, B.P.," Physical testing of textiles"
7. Grover, E. and Hamby, D.S., "Handbook of Textile Testing and Quality Control", Wiley Eastern, New Delhi, 1969

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TT-210A
TEXTILE FIBRE - II

L	T	P
3	1	-

Sessional: 50 marks
Exam : 100 marks
Total : 150 marks
Time : 3 Hrs

Note :
Nine questions will be set in the question paper i.e. two from each unit. The students will be required to attempt one question from each unit. Question no. 1 is compulsory. It is objective type 15 questions of multiple choice covering all the four units.

UNIT-I

Polymerization:

Introduction of polymerization, monomer, oligomer, comonomer, polymer, classification of polymers, homopolymers and copolymers, Thermo sets , Thermoplastic, Elastomers , Tg, Tm, Polymerization techniques- bulk polymerization, solution polymerization, suspension polymerization and emulsion polymerization, New polymerization techniques-Gas Phase polymerization, Polymerization mechanisms addition polymerization, condensation polymerization. Criteria for fibre forming polymers

UNIT-II

Polymerization of different fibers:

Polymerization of polyester by DMT and TPA route, Polymerization of Nylon-6 and Nylon-6,6
Polymerization of polyacrylonitrile by suspension and solution polymerization, polymerization of polypropylene by suspension and gas phase polymerization.

UNIT-III

Melt Spinning:

Melt Spinning Line and its equipment, cooling system, General principle of spinning, fluid flow through a capillary, die-swell effect, melt extrusion, spinning conditions such as spinneret size, rate of extrusion, spinning stretch and its effect on filament structure and properties with reference to polyester, polyamide and polypropylene fibers.

UNIT-IV

Solution Spinning:

Solution Spinning, Classification of solution spinning-dry spinning, wet spinning, dry jet wet spinning, wet and dry spinning of viscose and acrylic fiber, effect of spinning variables on structure and properties in gel and final final fibers, high shrinkage acrylic fiber. Drawing and heat setting.

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Suggested Text Books & References:

1. Gupta, V.B. & Kothari, V.K.,"Manufactured Fibre Technology". Chapman & Hall, London, 1977
2. Mukhopadhyay, S. "Advances in Fibre science", Textile institute, Manchester.
3. Deopura, B.L., "Course Material of Pilot Programme on Manmade Fibres", NCUTE Publication, 1999.
4. Mishra, S.P., "A Textbook of Fibre Science & Technology'', New Age International Publishers, New Delhi, 1999.
5. Pajart & Oldrich "Textile Science & Technology- Processing of Polyester Fibres", Elsevier Scientific Publishing Co., 1979.
6. Robinson. J.S., "Spinning & Extruding of Fibres".
7. Pattabhiram, T.K., "Spinning Fundamentals of Manmade Fibres", Mahajan Publishing Pvt. Ltd., Ahmedabad, 1996.

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TT-212A

YARN MANUFACTURING-II LAB

L	T	P
-	-	3

Practical/viva: 25 marks
Sessional: 25 marks
Total: 50 marks
Duration of Exam: 3 Hrs

Combing

1. To the study the different methods of lap formation in combing preparatory.
2. To study the combing cycle of a rectilinear cotton comber.

Speedframe

3. To study the drafting, twisting and winding zone of speed frame.
4. To study the building motion in speed frame.
5. To study the differential motion of speed frame and calculation of bobbin speed.
6. Calculation of break draft constant, draft constant and twist constant and production of speed frame.

Ringframe

7. To demonstrate the working principle of a ringframe.
8. To study the different components of drafting system and twisting system.
9. Calculation pertaining to gearing, speed, constant, draft and production.

Note: The above experiment should be conducted and shall be decided on factors like:

a) Facilities installed at Institute
b) Accessibility to industry & nearby institute like IIT Delhi, NITRA Gaziabad, Textile Committee and NITRA Panipat.
c) Trend of technological developments in National & International perspective.

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TT-214A
FABRIC MANUFACTURING-II LAB

L	T	P
-	-	3

Practical/viva: 25 marks
Sessional: 25 marks
Total: 50 marks

Duration of Exam: 3 Hrs

Basic Concept
1. To show actual working of all motions of simple loom & with multiple boxes.

Automatic Loom
2. To show and compare all mechanisms of automatic loom with plan loom.

Introduction to Dobby, Jacquard and Terry Weaving
3. To show all type of mechanisms (Mechanical/Electronic) used for producing fabrics with different structures & designs.

Principles of Weft Insertion
4. To show all latest weft insertion methods -difference, comparison, need.

Shuttleless Looms
5. To show actual working of all latest looms- Advantages, Comparison.

Special Weaves
6. To analyze all type of weaving fabrics with different weaves.

Weaving Calculations
7. To do all types of calculations needed for all type of weaving machines.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Gaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-216A
TEXTILE CHEMICAL PROCESSING – II LAB

L	T	P
-	-	3

Practical/viva: 25 marks
Sessional: 25 marks
Total: 50 marks
Duration of Exam: 3 Hrs

1. Conduct practicals on Conventional and latest machines (Preparatory / dying / Finishing).
2. Conduct practicals on Recent developed methods of dyeing using different type of dyes
   (a) Natural
   (b) Synthetic
   (c) Blends
3. Dyeing of cotton yarn with vat, reactive and sulphur in a sample pot dyeing machine.
4. Dyeing of cotton fabric with vat, reactive and sulphur dyes in laboratory jigger machine.
5. Calibration of dyeing and recipe prediction with the help of CCM.
6. Study of fastness to washing and rubbing with the help of CCM.
7. Reproduction of shade with the aid of computer as well as visual methods.
8. Printing with kerosene and synthetic based thickeners. Evaluate the printing with qualitative and quantitative methods on different materials.
9. Conduct practical with transfer printing technique on different materials.
10. Compare the solvent dyeing and solvent assisted dyeing on a chosen piece of material.
11. Quantitative analysis of different textile blends in fibre, yarn and fabric form.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Gaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-218A
TEXTILE TESTING - I LAB

L	T	P
-	-	3

Practical/viva: 25 marks
Sessional: 25 marks
Total: 50 marks
Time: 3 hours

1. To determine moisture parameters of the fibers.
2. To determine the staple length of Natural Fibers.
3. To determine the fineness of Natural Fibers.
4. To determine the maturity of the Fibers.
5. To find the strength and elongation of Natural, Manmade& synthetic fiber.
6. To determine the linear density of fibers.
7. To determine the spin finish percentage in man made fibers.
8. To determine blend percent of the material.
9. To determine the linear density of a given Yarn.
10. To determine the twist per inch of the yarn.
11. To determine the hairiness of the yarn.
12. To determine the strength& elongation of a given Yarn.
13. To determine the count strength product of the yarn.
14. To determine the hairiness of the given yarn.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Gaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-301A

STRUCTURE AND PROPERTIES OF FIBRES

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 Hrs.

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT-1

Structure of fibres

Morphology and order in fibre structure, concept and theories of orientation, crystallization and its measurement technique such as X-ray.

Chemical and physical structure of fibres such as wool, silk, cotton and bast fibre and man- made fibre such as Nylon, PET, Acrylic and Viscose.

UNIT-2

Mechanical properties

Theory of load-elongation curve, stress-strain curve, modulus, elasticity and visco elasticity, work of rupture/toughness, yield point, creep and stress relaxation behavior of fibres and simple spring and dash pot models simulating textile fibers.

Frictional properties of fibers

Nature and measurements.

UNIT-3

Moisture properties

Relation between moisture regain and relative humidity, hysteresis, absorption in fibers, diffusion theories of moisture absorption-general view, diffusion of moisture, quantitatative analysis of moisture absorption, swelling.

Optical properties of fibers

Refractive index and polarization of light, birefringence and its measurement.

UNIT-4

Thermal properties

Molecular motion and transition phenomenon, thermal expansion behaviour, first order and second order transition phenomenon.

Electrical properties

Introduction to electrical properties such as dielectric properties such as electric properties and static charge generation

Suggested Text Books and References

1. Morton W E and Hearle J W S, “Physical Properties of Textile Fibres”, The Textile Institute, Manchester(1993)
2. Meredith R, “The mechanical properties of Textile Fibres”, North Holland co; Amsterdam(1959).

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TT-303A
YARN MANUFACTURING-III

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT-I

Forces acting on yarn and traveler during spinning, spinning tension in ring frame, Theory of yarn balloon, Limitations of ring spinning systems, modern developments in ring frame, Introduction to open-end spinning, Comparison of ring frame with other modern spinning technologies.

UNIT-II

Rotor Spinning: Principle of yarn formation, machine parameters, effect of machine variables and fibre properties on the rotor yarn property, raw material requirement and preparation, The opening unit, Yarn formation: Fibre flow into the rotor, Formation of the yarn, The false twist effect, wrapping fibres. The Rotor groove, Rotor diameter, Combination of rotor dia, & rotor groove. Back doubling, Rotor revolutions, cleaning the rotor. Yarn withdrawal and winding: The direction of withdrawal, the naval, Withdrawal tube, Requirement for the package, Economic aspects of rotor spinning, Structure and properties of different types of yarns, end uses of rotor yarns.

UNIT-III

Friction spinning : Operating principle, Technological interrelationship, Advantages & disadvantages Dref-2 process & DREF-3 process :Operating principle ,use of raw material, Study of electrostatic, air-vortex spinning, mechanism of yarn formation, properties and end uses of yarn spun on these systems.

The false-twist process: generation of false twist, Forming a yarn with the aid of false twist spinning elements. Murata Jet spinner: operating principle, Raw material requirements, Yarn Characteristics and end uses.

UNIT-IV

Comparative analysis of yarn structure, properties and their end use application produced from rotor, air-jet, friction techniques viz a viz ring spun yarn.

Compact Spinning: principle, different methods of fibre compacting, properties of yarn.
Production of fancy yarn & uses
Production of Industrial yarn- Sewing thread.

Suggested Text Books and References

1. Klein. W., " Manual of Textile Technology", 'Short Staple Spinning Series', Vol. 1 to 5. --- Textile Institute. Manchester.
2. Chattopadhyay, R., "Advances in Technology of Yarn Production, 1st Ed., NCUTE, IIT Delhi (2002).
3. Oxtoby, E., Spun Yarn technology.
4. Khare A. R., "Elements of Ringframe and Doubling", Sai Book Centre,Mumbai.

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TT-305A
FABRIC MANUFACTURING-III

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit I:

Introduction to Shuttleless Weaving. Advantages of Shuttleless weaving, comparison with shuttle weaving. Features of unconventional weaving. Different Selvedge: Tucked-in, Leno, fused, Stitched. Their mechanism of formation, their characteristics and uses. Weft Accumulator.

Projectile weaving Machine: Basic principle of projectile weaving. Feeding of yarn to projectile. Sequence of weft insertion. Cam driven shedding, Dwelling Sley beat-up, Torsion bar picking. Energy utilization during picking.

Unit II:

Rapier Weaving Machine: Classification based on type of rapier, system of weft insertion and number of rapiers. Sequence of weft insertion for Gabler and Dewas system, their comparison. Driving of flexible and rigid rapiers. Asynchronized rapier timing. Rapier buckling.

Air Jet Weaving Machine: Principle of weft insertion. Air requirements. Path of the yarn on loom. Sequence of weft insertion. Control of air stream by relay nozzle, confuser profile reed and suction. Design of air jet nozzle. Air drag force, factors affecting drag force.

Unit III

Water Jet Weaving Machine: Principle of weft insertion. Path of the yarn on loom. Quality of water required. Sequence of weft insertion. Water jet nozzle. Merits and demerits of water jet weaving. Fabric drying on loom.

Multiphase Weaving: Principle of multiphase weaving. Warp way and weft way multiphase looms. Circular loom.

Positive Let-off: Hunt's let-off, electronic let-off.

Positive Continuous Take-up: Sulzer take-up and Shirley take-up.

Unit IV

Nonwoven: Definition and classification. Fiber properties requirements. Parallel laid, cross laid, aerodynamic, wet laid and Spunbonded technique of web formation. Web bonding techniques: Needle punching, Spunlace, Spunbond, Meltblown Thermal bond and Chemical bonding. Application of various non woven fabrics.

Suggested Text Books and References

1. Talukdar , M.,"Weaving Mechanism ,Management", Mahajan Publisher, Ahmedabad.
2. Adanur, S. "Weaving Technology".
3. Swaty,"Shuttleless Weaving".
4. Madhavamurthy, "Nonwoven"

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TT-307A
FABRIC STRUCTURE & DESIGN

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT –I

Elements of Colour:-physical basis of color, light and color phenomenon, complementary colors and color measurements, attributes of primary and secondary color, color contrast and color harmony, application of color.

UNIT - II

Basic concepts of fabric structure, importance of fabric structure, classification of fabrics, notation of weave, weave repeat unit, drafting plan, construction of draft and lifting plans, peg plan and denting.

Simple Weaves

Plain weave and derivatives-basket, rib, repp

Twill weave and derivatives- zig-zag, herringbone, broken, steep, elongated; effect of twist on prominency of twill lines

Fabric set calculation

Yarn and cloth relationships-GSM Calculation

UNIT – III

Simple Weaves contd.

Sateen & Satins.

Crepe weaves, Mock-leno, Cork screw, Honey-comb, Huck-a-back, Bed ford cord, Welt and pique fabrics, Extra warp and weft figuring

UNIT -IV

Backed Cloth, Double cloth, multi-layers fabric, belting structures, label weaving-narrow fabric, velvet and velveteen.

Suggested Text Books and References

1. Watson's Textile Design and Colour : Elementary weaves and Figured fabrics, edited by Z. J. Grosicki., Woodhead Publication, Seventh edition.
2. Watson's Advance Textile Design: Compound Woven Structure edited by Z Grosicki,Woodhead Publication, Series No.-2
3. Fabric Structure and Design, by N.Gokarneshan, New Age nternatinal, 2nd Edition

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TT – 309A
STATISTICAL ANALYSES

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT 1

Foundations of statistics:
Basic concepts of statistics, collection sampling, classification and graphical representation of data, Measures of central tendency. Numerical problems.

Sampling Theory:
Population and sample, types of sampling, sampling classification and graphical representation of data , measures of central tendency , control charts.

UNIT 2

Measures of Dispersion Range, Quartile deviation, standard deviation, moments, skewness and kurtosis (Definition, properties and associated numerical only).

Theory of Probability Different approaches to probability, Additive and Multiplicative Laws of probability, Baye's theorem.

UNIT 3

Tests of hypothesis and significance:
Definition of Statistical hypothesis, Null hypothesis. Type I and II errors and Levels of significance, Standard error and sampling distribution ,Tests of significance for Large and small Samples (discussion). Problems based on χ^2-test for goodness of fit, Student's t-Test and Analysis of variance (one way and two way classifications.

UNIT 4

Regression & correlation:
Karl Pearson's coefficient of correlation, Rank correlation coefficient and lines of regression, Numerical problems, factorial design and analysis.

Suggested Text Books and References

1. Ray and Sharma, "Mathematical Statistics"
2. Bowker, A.H., and Liberman, G.J., "Engineering statistics", Prentice Hall, N.J.1972
3. Murray P Spiegel, "Theory & Problems of Probability & Statistics"
4. Bhattacharya, G.K., and Johnson, R.A.," Statistical concepts and methods", John Wiley, New Delhi, 2002.
5. Hogg, R.V, Elliot, A.T., "Probability and Statistical Inference", Pearson Education, 6th Edition

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TT-311A
YARN MANUFACTURING-III LAB

L	T	P
-	-	3

Practical/viva: 50 marks
Sessional: 50 marks
Total: 100 marks
Duration of Exam: 3 Hrs

LIST OF EXPERIMENTS

1. Study of operating principle, material flow and various parts of rotor spinning.
2. Study of drafting, twisting and winding operation of rotor spinning.
3. Study of operating principle, material flow and various parts of air jet spinning.
4. Study of drafting, twisting and winding operation of air jet spinning.
5. Study of operating principle, material flow and various parts of friction (Dref II and Dref III) spinning.
6. Study of drafting, twisting and winding operation of friction (Dref II and Dref III) spinning.
7. Study of Compact spinning, methods of fibre compacting, modification and attachments.
8. Assessment and control of variability in ring, rotor and air-jet spun yarns.
9. Idea of time and motion study.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Gaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-313A: FABRIC MANUFACTURING –III LAB

L	T	P
-	-	3

Practical / Viva : 50 Marks
Sessional: 50 Marks
Total: 100 Marks
Duration of exam: 3 Hrs.

LIST OF EXPERIMENTS:

1. To study the different selvedge formation: Tuck-in, Leno, Fused and Knitted selvedge.
2. To study the working of positive let-off and electronic let-off and their advantages.
3. To study the working of Matched cam beat-up.
4. To study the working of Electronic Dobby and development of designs in electronic dobby.
5. To study the working of Flexible Rapier loom system and sequence of weft insertion.
6. To study the working of Rigid Rapier loom system and sequence of weft insertion.
7. Studies on Somet flexible rapier drive.
8. To study the working of torsion bar picking and sequence of weft insertion in projectile loom.
9. To study the working of Air jet nozzle and sequence of weft insertion in air jet weaving. Problems of Air jet loom.
10. To study the advantages and disadvantages of various shuttle less looms.

Note: Any 8 experiments from the above list of experiments are to be performed by each student.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Gaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-315A: FABRIC STRUCTURE & DESIGN LAB

L	T	P
-	-	3

Practical / Viva : 50 Marks
Sessional: 50 Marks
Total: 100 Marks
Duration of exam: 3 Hrs.

LIST OF EXPERIMENTS

1. Basic principles of woven fabric analysis and estimation of data for cloth production.
2. Recognition of yarn and fabric and material used in their construction.

Weave analysis of –

3. Plain weave and its derivatives.
4. Twill weave and its derivatives.
5. Satins and sateens.
6. Mock-leno.
7. Honey comb and brighten Honey comb.
8. Huck-a-back.
9. Crepe weaves
10. Diamond weave

Note: Any 8 experiments from the above list of experiments are to be performed by each student

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TT-317A: VOCATIONAL TRAINING

Sessional: 100 Marks
Total : 100 Marks

Each student, individual or in association with some other students at the end of the 4th semester B.Tech. course will observe and collect the general and technical information pertaining to machinery, raw materials used, yarns and fabrics produced by the textile mills, in which he/she/they are undertaking 6 weeks practical training with the approval of the Director, PITE.

Each student will have to submit a computerized report duly approved and signed by the guide to the Head of department.

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TT-302A
THEORY OF TEXTILE STRUCTURE

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT-I

Yarn geometry- coaxial helix model, idealized yarn geometry relationship of yarn number and twist factor. Twist contraction and retraction, ideal and real yarns.

Packing of fibre in yarn. Ideal packing, hexagonal close packing and other forms. Deviation from ideal forms- concentrating and disturbing features, specific volume of yarns, relation between twist, diameter and twist angle.

UNIT-II

Introduction to fibre migration, Ideal migration, Mechanisms of migration- tension variation, geometric mechanism, combined mechanism, Tracer fibre technique, Parameters of migration, Migration in blended yarns.

UNIT-III

Extension of continuous filament yarn for small and large strains, Prediction of breakage, mechanics of staple fibre yarns – traditional view, modified approach by Hearle & El-Sheikh. Mechanics of blended yarn, Hamburger model.

UNIT-IV

Elements of fabric geometry. Cloth setting theories, Fabric cover, fractional and total cover. Fabric cover and fabric weight relationship, Pierce's fabric geometry, flexible and elastic thread model, jammed structure, square fabric, crimp interchange, Relationship between h, p, c, Kemp's Race Track Model.

Suggested Text Books and References:

1. Hearle, J. W. S., Grosberg, P., and Backer, S., "Structural mechanics of fibre, yarn and fabrics", Wiley Interscience Publication.
2. "Textile Yarn, Technology, Structure & Application" – Goswami B.C., Martindale, J.G., Scardino F.L., Wiley Interscience publication, 1977, U.S.A.
3. Zurek, W., "Structure of Yarn", Foreign Scientific Publications.
4. Cloth Geometry F.T Pierce.
5. Woven Textile Structure: Theory & Application , B. K. Behera & P. K. Hari, Woodhead Textiles Series No. 115.

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TT-322
TEXTILE TESTING - II

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Unit I:

Fabric Testing

Importance of fabric testing, scope of fabric testing.

Methods of tests for fabric dimensions and other physical properties; thickness, weight, crimp, shrinkage, air permeability, moisture permeability, Water-vapour permeability.

wettability, shower-proofness, water-proofness and flame-resistance.

Aesthetic properties of fabric: drape, stiffness, bending, shearing, compression, crease recovery

Unit II:

Fabric Tensile Testing

Fabric Strength Testing: Tensile, tearing and bursting strength tests; principles and operation of equipment, Fabric bending, shearing and draping properties: terminology, quantities and units. Experimental method.

Factors affecting the results of tensile testing. Evaluation and interpretation of tensile test results.

Unit III:

Comfort and Handle

Fabric comfort: introduction, importance and classification of comfort. Thermal comfort, Moisture Transport, sensorial comfort, Moisture absorption and water repellency.

Objective assessment of fabric handle; KES and FAST system.

Unit IV:

Testing of Technical Textiles

Testing of filtration charaterstics, test for geotextiles, test for protective clothing, test of various form of medical textiles, moisture transmission through breathable fabrics, Special tests for carpets and nonwoven fabrics.

Mechanical behaviour of textiles. Terms and definitions, expressing the results, quantities and units.

Statistical Quality control in Textiles: tolerance limit, their setting, Control charts, Types of control charts – X-R chart, P chart, nP chart.

Suggested Text Books & References

1. Booth, J.E., “Principles of Textile Testing”, Butterworths, London
2. Kothari, V.K., “Physical Testing of Textiles”
3. Fabric testing, ED. Jinlian HU, Woodhead publication CRC Press, 2008.
4. Saville, BP, Physical testiong of textiles, Woodhead publication CRC Press 1999.
5. Slater, “Textile Progress – Physical Testing and Quality Control”, Textile Institute, Manchester.

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TT-306A
GARMENT TECHNOLOGY

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT-I:
Introduction to clothing manufacturing. The structure of clothing industry. Organization chart of clothing factory. Raw materials and accessories for garment industry. Relationship between fabric properties and making up process. Fabric quality requirement for garment industry.
Trimming and garment accessories: definition, types, trimming methodologies accessories application. Evaluation of sewability

UNIT-II: Garment Manufacturing Process
Pattern Making: Introduction to pattern making and garment construction. Different terminologies, Drafting, Basic bodies, blocks. CAD for pattern making.
Spreading and Lay Planning: introduction to symmetrical and asymmetrical fabrics. Criteria for spreading, methods of spreading, spreading machines. Principles of lay plan, types of lay plan.

UNIT-III: Garment Manufacturing Process
Planning, drawing and reproduction of marker. Methods of marker planning and marker used – normal marker planning and computerized marker planning. Cutting by straight knife, band knife, notches, drills. Computer controlled knives, die cutting, laser cutting, plasma cutting.

UNIT-IV:
Sewing: Properties of seams, seam types, stitch types, sewing machine feed mechanism, sewing machine needles, sewing threads, sewing problems.
Introduction to Sewing Machinery: Basic sewing machines and associated work aids.
Pressing: Purpose of pressing, pressing equipment and methods.
General description to alternative methods of joining materials. The use of components, trimmings to care labeling in Garment manufacturing.

References:

1. Coocklin Gerry, “Garment Technology for Fashion Designer”, Om Book Service, New Delhi.
2. Emilio Pucu, “Fashion from Concept to Consumer”.
3. Harold Carr & Barbar Lantham, “The Technology of Clothing Manufacture”, Om Book Service, New Delhi.
4. Aldrich W, “Metric Pattern Cutting”, Om Book Service, New Delhi.
5. Mehta P V and Bhardwaj S K, “managing Quality in Apparel Industry” Om Book Service, New Delhi.

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TT-308A
KNITTING TECHNOLOGY

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT-I

Introduction to Knitting: Difference between woven and knitted products and process. Classification of Knitting Machines. Terms and Definitions used in knitting. Elements of knitting: needles, sinker and cam.

UNIT -II

Basic weft knitted structures. Structure and properties of Plain, Rib, Purl & Interlock. Knit. Machine and mechanism of plain, rib, purl and interlock fabric production. Tuck & Float loops. Derivatives of some Knitted structure.

UNIT -III

Production calculation. Calculation of Areal density, Fabric width, Fractional cover, Tightness factor and mass per running meter. Knitted fabric relaxation and shrinkage, Values of Kc, Kw & Ks. Yarn property required for knitting. Control of yarn tension during knitting. Knitted fabric defects.

UNIT -IV

Warp Knitting

Comparison between warp knits, weft knits and woven. Basic warp knit structures: over lap, under lap, closed lap, open lap. Knitting cycle in Tricot Knitting machine and Raschel knitting machine, Five Basic overlap, under lap variations, some warp knitted structures like, loop raised, satin, lock knit, two bar tricot, reverse lock nit, shark skin, queens cord, Open Atlas, Closed Atlas, etc.

Suggested Text Books and References:

1. Spencer D J, “Knitting Technology” Woodhead Publishing Ltd. Cambridge, England.
2. Ajgaonkar, D. B. “Knitting Technology”.
3. “Knitting Technology” NCUTE Publication.
4. BOOTH J E, “Textile Mathematics Vol-3” The Textile Institute Manchester Publication.

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TT-310A
COMPUTER AIDED FABRIC MANUFACTURING

L	T	P
2	1	-

Sessional: 25 Marks
Exam: 50 Marks
Total: 75 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit-I

Basic Concepts
Overview of CAD and CAM, their application in various fields of textiles and benefits
Concepts of image processing
Design Fundamentals
Development of printable designs for screen printing through CAD- ArahPaint; tools of ArahPaint software module; scanning of pictures and editing
Calculation of Fabric parameters through CAD

Unit-II

Electronic Dobby
Working principle, machine parameters
Design features, drive arrangement, system for pattern data transfer and design development.
Electronic Jacquard
Working principle, constructional variants, various electronic jacquard systems
Selection system, pattern data transfer and management.

Unit-III

CAD for Dobby, Jacquard
Development of Dobby Designs through ArahWeave,
Development of jacquard designs-modes of weaving in ArahWeave software, other features of ArahWeave – Weave Simulation, Fabric Simulation, Yarn and Fabric Parameters.

Unit-IV

Development of figures, geometric ornamentations, arrangement of figures
Narrow fabric production through CAD, Carpet designing through CAD
Embroidery Designing through CAD, 3-D draping-Application and tools.

References:

1. Phiroz Dastoor, " Application of CAD in the Industrial Fabrics", Journal of the Textile Institute Part - 111, Manchester, 1993.
2. Aldrich, W. (Ed.), " CAD in clothing and textiles : A collection of experts view ", Blackwell, Science, 2nd Edition, U.K., 1994.
3. Jayaraman, S, " Computer Science and Textile Science ", T.P. Vol.26 No.3, Textile Inst.,Manchester, 1995.
4. Sigmon D.M. Grady, P.L. and Winchester S.C. " Computer integarated manufacturing and total quality management ", Textile Progress Vol 27, No 4, Textile Institute, Manchester, 1998. ISBN: 1870372166.
5. Gray S., "CAD/CAM in clothing and textiles ", Gower, U.K, 1998, ISBN: 056607673X.
6. Lab Manuals of ArahPaint, ArahWeave and ArahDrape

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TT-324
MULTI FIBRE SPINNING

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit I:
Characteristics of man-made fibres, objectives of blending, selection of fibre specification for blending, processing of short, medium and long staple man made fibres on cotton system, measures of blend intimacy, factors influencing blend intimacy, structure an properties of blend yarns, Effect of blend composition & fibre characteristics on properties of blended yarn. Blend mechanics. Advantages & disadvantages of different blending technique. Tinting for a blend spinning of dyed fibres.

Unit II:
Woolen, semi-worsted and worsted systems of spinning. Wool blending, wool sorting, wool contamination and its removal, wool scouring, drying, back washing. Woollen carding, intermediate gilling, auto leveler in gillbox, rectiliniear combing, rubbing frame, and spinning.

Unit III:
Jute Spinning: Basic concepts of the spinning process and the machinery. Jute retting, stripping, jute grading, jute batching, fibre defects. Jute carding; breaker and finisher card. Drawing and Spinning.

Unit IV:
Silk Spinning: Introduction to twisting and spinning of silk fibres, Spun silk processing – Spreader, Sett Frame, Drawbox, Rover.

Waste Spinning
Cotton waste and its varieties, classification and possible end uses, machines and processes to produce waste yarns e.g. condenser system, coiled system.

References:

1. Salhotra K R, “Spinning of man-mades and blends on cotton system”
2. Oxloby, E. “Spun Yarn Technology”. Butterworths, London.
3. Goswami, B.G. “Textile Yarns; Technology , Structure & Applications”. Textile Institute, Manchaster
4. Wool Hand Book Vol II , Werner von Bergei
5. Jute- Fibre to yarn by R R Atkinson
6. British Wool Manual by H Spibei
7. Wool Spinning vol I & II by Lipenkov
8. Manual of Silk Reeling – F.A.O
9. Fundamentals of Spun Yarn Technology, Lawrence, 1st Ed., CRC Press, LLC, Florida, USA,2003
10. Manual of Technology: Woolen Yarn Manufacture – Richards RTDand Sykes A.B. The Textile Institute, Manchester, 1994

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TT-314A
GARMENT TECHNOLOGY LAB

L	T	P
-	-	3

Practical/viva: 50 marks
Sessional: 50 marks
Total: 100 marks
Duration of Exam: 3 hours

Sl. No.	Title of Experiment	No. of Turns
1.	Developments of patterns based on anthropometric data.	4
2.	Working on sewing machines.	2
3.	Production of different types of stitches (Chain stitch, Lock stich and Overlock stitch).	3
4.	Determination of seam strength.	2
5.	Determination of seam pucker.	1

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TT-316A
KNITTING TECHNOLOGY LAB

L	T	P
-	-	2

Practical/viva: 25 marks
Sessional: 25 marks
Total: 50 marks
Duration of Exam: 3 hours

List of Experiment:

1. Working on Flat Knitting Machine.
2. Development of Plain, Rib, and Interlock fabric samples.
3. Setting of knitting Cam.
4. Development of derivative knitted structures on flat bed knitting machine.
5. Analysis of knitted structures.
6. Determination of K_s, K_c and K_w values.
7. Effect of stitch length, stitch density, course count, wale count on fabric arial density.

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TT-318A
COMPUTER AIDED FABRIC MANUFACTURING LAB

L	T	P
-	-	3

Practical/viva: 50 marks
Sessional: 25 marks
Total: 75 marks
Duration of Exam: 3 hours

Sl. No.	Title of Experiment	No. of Turns
1.	Working with Paint Module of the software	3
2.	Scanning and editing a fabric artwork.	2
3.	Development of Dobby design on system.	1
4.	Development of Jacquard design on system.	2
5.	3D draping and its tools.	1
6.	Weave simulation on CAD.	2
7.	Development of label design through CAD.	1
8.	Production of sample in print format	2

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TT-326
TEXTILE TESTING - II LAB

L	T	P
-	-	3

Practical/viva: 50 marks
Sessional: 50 marks
Total: 100 marks
Duration of Exam: 3 Hrs

1. To determine the stiffness property of the fabric.
2. To determine the tensile strength of the fabric.
3. To determine the tearing strength of the fabric.
4. To determine the bursting strength of the fabric.
5. To determine air permeability of fabrics.
6. To determine the shower proof property of a fabric.
7. To determine the drape property of fabrics.
8. To determine the crimp and Areal density of fabrics.
9. To determine crease resistance property of the fabric.
10. To determine the pilling property of the fabric.
11. To determine water vapor permeability of the fabric.
12. To determine the thermal comfort property of the fabric.

Note: The above experiment should be conducted and shall be decided on factors like:

1. Facilities installed at Institute
2. Accessibility to industry & nearby institute like IIT Delhi, NITRA Gaziabad, Textile Committee and NITRA Panipat.
3. Trend of technological developments in National & International perspective.

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TT-401A
TECHNICAL TEXTILES - I

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit I:

Introduction, definition and growth of technical textiles, Classification of Technical Textiles. Brief idea about technical fibres. Role of yarn construction, fabric construction and composite materials.

Unit II:

Filtration:
Textile and other filter media for dry and wet filtration. Filtration parameters. Theory of dust collection and solid liquid separation. Filtration requirements. Role of fibre, fabric construction and finishing treatments. Concept of pore size and particle size. Mathematical models. Nano filters.

Unit III:

Geotextiles:
Types of geosynthetic and their uses. Functions and application areas of Geotextiles. Essential properties. Fibre and fabric selection criteria for geotextile applications. Mechanics of reinforcement, filtration and drainage by Geotextiles.
Natural fibre Geotextiles.
Methods of long term prediction of geotextile life and survivability in soil. Geotextile testing.

Unit IV:

Textiles in Transportation:
Introduction to automotive textile. Application of textiles in automobiles. Fibre requirements. Textile in passenger cars – tyres, airbags, seat belts, hoses and filters. Textiles in other road vehicles. Railway application. Application in aircraft and marine.
Textile as structural elements in transport vehicles

Reference.

1. " Handbook of Technical Textiles", Ed. A R Horrcks and S C Anand, Woodhead Publication Ltd, Cambridge, 2000
2. " Handbook of Industrial Textiles", Ed. Sabit Adanur, Technomic Publishing Co. INC

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TT – 415
FUNDAMENTALS OF MANAGEMENT

L T P
4 1 -

Exam : 100 Marks
Sessional : 50 Marks
Total : 150 Marks
Time : 3 hours

UNIT-I Financial Management

Introduction of Financial Management, Objectives of Financial Decisions, Status and duties of Financial Executives. Financial Planning – Tools of financial planning. Management of working capital, Factors affecting requirements of working capital. Capital structure decisions. Features of appropriate capital structure. Sources of finance.

UNIT-II Personnel Management

Personnel Management – Meaning, Nature and Importance; Functions of Personnel Management – (a) Managerial Functions and (b) Operative functions. Job Analysis: Meaning and Importance; Process of Job Analysis; Job Description and Job specification. Human Resource Development- Meaning and concept.

UNIT-III Production Management

Production Management : Definition and Objectives
Plant location: Ideal plant location. Factors affecting plant location.
Plant Layout : Ideal plant layout, factors affecting plant layout.
Work Measurement : Meaning, Objectives and Essentials of work measurement.
Production Control : Meaning and importance of production control and steps involved in production control.

UNIT-IV Marketing Management

Nature, scope and importance of marketing management. Modern Marketing concepts. Role of marketing in economic development. Marketing Mix. Marketing Information System. Meaning, nature and scope of International Marketing.

NOTE : The question paper shall have eight questions in all organized into four sections, each section having two questions from each of the four units. The candidateshall have to attempt five questions in all, selecting at least one question from each unit.

Books Recommended

Text Books

1. Principles and Practice of Management - R.S. Gupta, B.D.Sharma, N.S. Bhalla. (Kalyani Publishers)
2. Organisation and Management - R.D. Aggarwal (Tata Mc Graw Hill)

Reference Books

1. Principles & Practices of Management – L.M. Prasad (Sultan Chand & Sons)
2. Management – Harold, Koontz and Cyrilo Donell (Mc.Graw Hill).
4. Financial Management - I.M. Pandey (Vikas Publishing House, New Delhi)
5. Management - James A.F. Stoner & R.Edward Freeman, PHI.
6. Marketing Management- Philip Kotler, PHI

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TT-417
ADVANCED CHEMICAL PROCESSING

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit I:

Continuous open width processing, use of eco-friendly enzymes in wet processing.
Continuous dyeing, Super critical CO_2 dyeing. New direct, reactive and disperse dyes.
Grading and methods to determine fastness relating to washing, light, perspiration, sublimation and hot pressing treatment.

Unit II:

Novel printing techniques like Ink Jet printing or digital printing.
Zero formaldehyde easy-care finishes, polysiloxanes based softener. Breathable water-proof fabrics. Antimicrobial finishing of textiles. Low wet pick up techniques.

Unit III:

Source of natural light, sources of artificial light, CIE illuminants, absorption and scattering of light. Beer-Lambert law, Additive and subtractive mixing. Standard observer color matching function, Tristimulus values, Chromtaicity coordinates, Kubelka-Munk equation. Metamerism.

Unit IV:

Spectophotometric curves and their relationship to perceived colors. Principle of spectrophotometer. Colorimeter, Munsell system of color specification. Relationship of hue, value and chroma. Whiteness and yellowness indices.
Computer aided color matching and recipe prediction

Reference:

1. "Colourage" Journal
2. "Asian Dyers" Journal
3. "Asian Textile Journal" Journal
4. "Man-made Textiles in India" Journal
5. Shah and Gandhi, "Instrumental Color", Mahajan Book Distributors.
6. Shore J. "Computer Aided Colour Matching", SDC U.K 1998 ISBN.
7. AATCC Technical Manual

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TT- 407A

ADVANCED CHEMICAL PROCESSING LAB

L	T	P
-	-	3

Practical/viva: 50 marks
Sessional: 50 marks
Total: 100 marks
Duration of Exam: 3 hours

List of Experiment:

1. Identification of dye on a dyed cotton sample
2. Determination of wash fastness of a dyed sample
3. Determination of Crock fastness of a dyed sample
4. Calibration of a UV-visible transmittance based spectrophotometer
5. Assessment color strength (K/S) of dyed sample
6. Relation between color strength (K/S) and dye uptake
7. Assessment of color difference between samples
8. Determination Lab values and construction of hue and shades based on that.

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TT – 425
PROCESS CONTROL IN SPINNING

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit I:

Importance of process control. Control of mixing quality and cost using Linear Programming. Bale management. Bale management: The concept, Instrumental evaluation of cotton, The final goal-bale management, the control, Step by step implementation of bale management. Control of cotton contamination. Control of cleaning efficiency and waste in blow room and card. Control of waste in comber.

Unit II:

Yarn Irregularity: Concept, Measurement, and Interpretation, Types of Irregularity, Causes of yarn irregularity, Index of Irregularity, Application.

Variance length curves: Fundamental considerations of the variance-length curve, Interpretation of V(l) and B(l) curves, Important characteristics of variance-length curve, Short term and Long term unevenness, Stacked variance length curve.

The spectrogram: Comparison of the diagram and spectrogram, Spectrogram Harmonics, causes of periodic defects, effect of doubling on periodic variation, Control of periodic mass variations.

Drafting wave: Definition, Causes of formation, Quasi-periodic irregularity, causes of drafting waves, Amplitude of drafting wave, Yarn irregularity due to drafting waves.

Yarn hairiness: Importance of Hairiness, Generation of yarn hairiness, Factors effecting hairiness, Effect of Preparatory and Spinning process on hairiness, Measure to reduce Hairiness, Periodic variation in hairiness, Hairiness Testing.

Unit III:

Imperfections: Concept, Measurement, and Interpretation; Importance of thin places, thick places and neps in the textile industry.

Yarn Faults: Importance of Yarn Faults, Determination of Yarn Faults, Various reasons for different types of Yarn Faults. Contribution of Raw material, Blow room and carding, Combing, Draw frame, Speed frame and Ring frame to yarn faults.

Control of yarn count and count CV%, between bobbin lea count variations, Minimizing lea count variation, Effect of count CV on strength CV.

Control of strength, and strength CV%, Mechanism of Strength Generation, Yarn failure mechanism, Influencing Factors, Variables which can affect yarn tensile properties, Influence of humidity of the room on the breaking force, instrument set up affect tensile properties. Control of end breaks: Mechanism of end breakage in ring spinning, Causes of end breaks in spinning.

Unit IV:

Yarn realisation and Process waste control: Control of measure, Method of consolidating waste, Waste losses at various stages like Blow room, Cards, Combers, Yarn waste, Sweepings, Invisible loss. Judging yarn realization of a mill

Measures for improving performance of blow room and card

Evaluation of auto leveler in draw frame

Measuring for improving performance of comber, draw frame and speed frame

Towards better performance of ring frame in terms of quality and productivity

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Measurement of productivity of a spinning mill and means to improve it,
Machinery Audit: Differences with routine Maintenance, Implementation of the system of machinery audit, Tools for machine audit, Machinery Audit in Spinning : Check List, Test Instruments for Machinery Audit
Analysis and interpretation of statistical data. Total quality control.

Reference.

1. Grade, A. R., and Subramanium T. A., "Process control in cotton spinning" ATIRA, Ahmedabad, 2nd Ed. (1978).
2. Salhotra, K. R., and Ishtiaque, S. M., "Process control in spinning", IIT Delhi, CD cell (2001).
3. Ratlam, T. V., "Quality control in spinning" SITRA, Coimbatore(1994).
4. Chattopadhyay, R., "Advances in Technology of Yarn Production, 1st Ed., NCUTE, IIT Delhi (2002).
5. GAR Foster, "Manual of Cotton Spinning Vol IV"

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TT-405A
PROCESS CONTROL IN CHEMICAL PROCESSING

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit I:

Importance of process and quality control in chemical processing. Quality of grey fabrics, selvedge quality, stains in grey fabric, overall assessment of quality of grey fabrics.
Stitching of grey pieces, common stitching defects and method for assessing stitching quality. Process control in shearing and cropping.

Unit II:

Singeing - Process control in singeing, parameters to control the singeing process
Desizing - Enzyme desizing, parameters to control the enzyme desizing process
Scouring - Parameters to control the pressure boil scouring
Mercerizing – Parameters to control the mercerization process,
Bleaching - Sodium hypochlorite & Hydrogen peroxide, treatment on J-box, pad roll bleaching, washing and drying.
Process control in Heat Setting process.

Unit III:

Process control in Dyeing - Fiber and yarn package dyeing,
Fabric dyeing - Satisfying basic needs, selection of dyes, process control in jigger dyeing, high temperature beam or jet dyeing, continuous dyeing.
Process control in Printing: Selection of thickening agent and preparation of printing paste, printing recipe, printing, fixation, after treatments.
Process control in Finishing: Stenter or felt calendar for temporary finishes, durable finishes: resin finishing, calendaring, decatising, weight reduction, carbonisation

Unit IV:

Evaluation of dyes - Dyestuff performance test, critical temperature test, migration test and build-up tests.
Textile Chemicals & auxiliaries - Wetting agents, Levelling Agents, Cross linking Agents, Thickeners & Binders for printing, OBA, Softners etc.
Evaluation of processed fabric at different stages: desizing, scouring, bleaching mercerization, heat setting, dyed printed and finished fabric.

References

1. ATIRA / BTRA Books of journals.
2. “Process control in processing” by ATIRA.

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TT – 433
PROCESS CONTROL IN GARMENT

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT-I

Automation in Garment Industry-Information Technology in Garment Industry, Microprocessor based machinery in design, pattern making, market making, cutting, sewing, embroidery, programmable machines.
Production planning in garment manufacturing; Cost structure in garment manufacturing; Production technology – manual and mechanical systems. Quantitative Production analysis, co-ordination of activities, Check list sheet, Time and motion study: need, Improving production efficiency,

UNIT-II

Stitch application for woven and knitted garment: Stitch identification, Application, Advantages and disadvantages, Proper stitch formation.
Common seam quality defect: Seam rupture on stretch knits, Skipped stitches, Stitch Cracking, Seam slippage and Needle cutting, Causes and remedies
Seam puckering: types, major causes and solution to puckering.

UNIT-III

Sewing Thread selection: Right thread to optimize seam quality, fibre type, thread construction, thread size. Advantages of core-spun sewing thread, Quality aspect of industrial sewing thread. Needle size, needle numbering system
Sewability: Quality parameters for assessing sewability, seam strength, seam pucker, seam slippage, needle cutting.

UNIT-IV

Quality control aspects of garment exports
Quality systems for garment (manufacture), the nature of quality costs, the functions of quality assurance and quality control; evaluating care and appearance, evaluating material contribution, Inspection standard for apparel,
Inspection systems – raw material inspection, in process inspection, final inspection, how much to inspect? Comparability checks; Audit inspection

References:

1. An Introduction to Quality Control for Apparel Industry by PV Mehta
2. Managing Quality for Apparel Industry by PV Mehta & SK Bhardwaj
3. Garment Technology, NCUTE Publication
4. Testing and Quality Management (Vol-1) by V.K. Kothari

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TT – 435
PROCESS CONTROL IN WEAVING

L T P
3 1 0

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 Hrs

UNIT: I

Importance and consideration for evolving a system for process control in winding, warping, sizing and weaving. Key parameters at winding, Quality and productivity in winding, Control of package faults, measuring principle. Process control in pirn winding: minimizing end breaks, improving the build of the pirn, control of productivity, causes of low productivity.

UNIT: II

Process control in warping: minimizing end break in warping, performance assessment of warping, quality of warp beam, control of productivity, causes of low productivity. Common defects & remedies at warping.
Process control in sizing: control of yarn stretch, performance assessment in sizing, quality of sized yarn, control of productivity, control of size losses. Common defects at sizing & remedies. Common defects in drawing-in & remedies, Costing calculations in drawing-in. Standard norms for setting speeds and production rates at different stages.

UNIT: III

Control of productivity in loom shed, Analysis of warp breaks, Control of loom efficiency, Control of loom stops, Quality of yarn, Loom performance, Control of loss of efficiency by snap reading, Optimum loom allocation
Types and classification of fabric defects, Measures for fabric defect control. Control and norms of hard waste in various processes, care, selection and consumption norms of accessories. Control of fabric quality at loom state.

UNIT: IV

Operative, Running, Machine Efficiency and Service factor. Importance and types of maintenance, Maintenance schedule in winding, warping, sizing and loomshed. Calculations pertaining production and efficiency. Machine allocation in winding, warping, pirn winding, sizing and loom shed. Machine audit.

References:

1. Control in Weaving" ATIRA Ahmedabad, 2nd Ed(1978).

2. Weaving Machines Mechanisms Management, by Talukdar MK, Sriramulu PK, Ajgaonkar DB.

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TT-402A
TECHNICAL TEXTILE - II

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit I:

Medical Textiles:

Introduction and classification of Medical Textiles. Fibres used for medical applications. Medical Drapes and Linen. Implantables – sutures, soft tissue implants, hard tissue implants, vascular implants. Nonimplantables – surgical dressing, bandages. Extracorporeal devices, Tissue Engineering. Healthcare and Hygiene products. Super absorbent polymers, hydrogels.

Unit II:

Protective Textiles:

Different types of protective clothing. Functional requirements of defense clothing including ballistic protection, parachute, temperature and flame retardant clothing. Chemical and Biological protective clothing. Water proof breathable fabric.

Unit III:

Technical Textiles in Apparel Sector:

Introduction to Smart Technology for textile and clothing. Areas of application of smart textile. Pathogen barrier fabric, fibres used for pathogen barrier application. Clothing for extreme climatic conditions - wearable technology for snow clothing, high altitude clothing. Electromagnetic radiation protective clothing.

Unit IV:

Other Applications:

Sportech – Sport uniforms, sporting equipments, textiles in sport surfaces
Agrotech – General applications and fibres used in agriculture, horticulture, fishing and animal husbandry
Buildtech – Architectural membranes, hoardings and signages, awnings and canopies.
Packtech. Ropes and cordages. Canvas covers and tarpaulins.

References:

1. “Handbook of Industrial Textiles”, Ed. Sabit Adanur, Technomic Publishing Co. INC
2. “Handbook of Technical Textiles”, Ed. A R Horrcks and S C Anand, Woodhead Publication Ltd, Cambridge, 2000
3. “ Textiles for protection, Ed. Richard A. Scott, Woodhead Publication Ltd, Cambridge,
4. “ Wearable Electronics and Photonics, Ed. Xiaoming Tao, Woodhead Publication Ltd, Cambridge

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TT-404A
TEXTILE COSTING

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit I: Fundamentals of Costing
Cost concept. Classification of cost, elements of cost. Methods of costing. Unit and operating costing, preparation of cost sheet. Estimation of cost of production and component of total cost. Profit planning, job order, batch process, conversion cost. Inventory costing.

Unit II:
Cost-Profit-Volume analysis, break even point, contribution margin, margin of safety, angle of incidence. Capital budgeting.

Unit III: Cost Structure in Textile Industry
Cost structure, cost of raw material/labour/utilities**.** Cost control, standard costs, determination of cost per kg of yarn, per metre of fabric, cost of dyeing/printing per metre of fabric, yarn realization, measures of cost reduction, selling price decision for yarn/fabric. Concept of depreciation.

Unit IV: Labour Allocation and Rationalization of Labour
Labour allocation in different department of textile mill. Work-load standards for card tenters, speed frame and ring frame tenters, doffers and winders, weavers, etc. Costing of large package spinning and optimum package size. Costing of Open end spun and Air-jet spun yarns.
Waste and its control at spinning and weaving, Costing of shuttle-less looms like Sulzer, air-jet. Economics of shuttle loom,

References:

1. Textile Costing by SITRA.
2. Khan and Jain, “Management Accounting”, Tata McGraw-Hill Publication.
3. Owler, L. W. J., Brown, J. L., “Wheldon’s Cost Accounting and Cost Methods”, ELVS Publication.

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TT-406A
MANAGEMENT OF TEXTILE PRODUCTION

L	T	P
4	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT-I: Indian Textile Industry

Structure of Indian Textile Industry, Organized and Decentralized Sector, Handloom sector, Production and export, Sickness in Textile Industry.
Location and Layout : Plant location and site selection , Factors affecting location , plant lay- out, Different type of layouts, Layout plan for spinning, weaving and process house.

UNIT-II: Production, Planning and Control

Product mix decision, linear programming concept, Supply chain management, Concept of zero defects, Management information system.
Inventory Management: Inventory concepts, techniques to reduce inventory, ABC analysis, EOQ, P and Q systems.
Enterprise Resource Planning: ERP concept, Applications of ERP, Ways to use ERP.

UNIT-III:

Air Conditioning and humidification: Humidification systems used in textile mills, Development in humidification systems.
Power Consumption: Energy consumption in textile machines, Measure to reduce power consumption.
Maintenance Management: Maintenance systems, Maintenance schedules.
Work Management: Basics of work load and work assignment, effect of end breaks on work assignment.

UNIT-IV:

Working Environment: Measures of good working environment, Measures to minimize noise, terms related to lighting, illumination level required for different departments, Material handling equipments, Accidents and safety engineering, Fire prevention and protection.

Suggested Text Books and References:

1. Dudeja V D , "*Management of textile Industry*" Textile Trade Press Ahmedabad (1981)
2. Ormerod A, "*Textile Project Management*" The Textile Institute , Manchester UK(1992)
3. Talukdar M K ,Srirammulu P K and Ajgaokar D B , "*Weaving – Machine , Mechanism and Management* ," Mahajan Publisher Private Ltd., Ahmedabad , India (1998)
4. Grade A R and Subramanian T A , "Process Control in Spinning," 3rd Edition., ATIRA Ahmedabad, (1987)
5. Higgins, "*Handbook of Maintenance Management*," Prentice Hall New York (1999).

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TT-426

HIGH PERFORMANCE FIBRES

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

Unit I:

Fully aromatic polyamide or aramid fibers: Nomex and Kevlar - Polymerization, spinning properties and applications
Ordered Polymeric Fibers: High molecular weight polyester, rigid rod and ladder polymers such as PBL, PBZT, PBO, PBI.

Unit II:

Carbon Fibers: Manufacturing of carbon fibres from PAN precursors, viscose and pitch fibres. Pre- oxidation, carbonization and graphitization. Chemical and structural changes in structure during these fibers. Structure and Properties of these fibers.
Liquid crystal fibres, Gel spinning

Unit III:

Flexible Chain based high performance fibers: High and ultramolecular weight polyethylene. Structure and properties of these fibers.
Optical Fibers: Definition, working principle of optical fibers, different materials used for manufacturing of optical fibers, different types of optical fibers. Manufacturing process of optical fibers and their applications. Hollow and profile fibres, design of spinnerette for such fibres.

Unit IV:
Glass fibres.PEEK fibers, Soyabean fibers etc. Memberane technology. Blended and bicomponent fibres. Medical textiles (fibers used in Medical textiles). Superabsorbent fibres.

Plasma modification. Radiation processing. Industrial tapes. Biaxially oriented films and film fibres. Barrier films and coatings.

Suggested Text Books and References:

1. P.Bajaj & A.K. Sengupta, “High performance fibers”
2. M. Lewin & J. Preston, “High Technology Fibers (Part A, B, C,D)”
3. Lewin & Pearce, “Handbook of Fiber Chemistry”. CRC Press LLC; 2 edition (Feb 26 998)

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TT – 428
Industrial Engineering

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

UNIT I

Introduction to work study, Method study, Basic procedure, Recording techniques (charts and diagrams), Elemental breakdown, Micro-motion studies, Therbligs, SIMO-chart, Principles of motion –economy.
Introduction, Objectives, technique, (time) information recording, methods of timings, Time study allowances, Work sampling technique, Performance rating and its determination PMTS, M. T. M., Work factor.

UNIT II

Principles of organization, Importance and characteristics of organization, Organization theories, Classical Organization theory, Neo-Classical organization theory, Modern organization theory, Types of organization, Military or line organization, Functional organization, Line and staff organization, Committees.

Objectives of PPC, Functions of PPC, Preplanning and planning, Routing, Estimating, scheduling-master schedule, and Daily schedule, Gantt chart, Dispatching –centralized vs. decentralized, Control, Follow up and progress reporting.

Introduction, Product development, Product characteristics, Role of product development, 3Ss – Standardization, Simplification and Specialization.

UNIT III

Introduction, Objectives and importance of sales forecasting, Types of forecasting, Methods of sales forecasting-Collective opinion method, Delphi technique, economic indicator method, Regression analysis, Moving average method, Time series analysis.

Introduction, Functions of inventory, Types of inventory, Control importance and functions, Inventory costs, Factors affecting inventory control, Various inventory control models. A. B. C. analysis, Lead-time calculations.

UNIT IV

Introduction, Objectives, Concept and life cycle of a product and V.E., Steps in VE.Methodology and techniques, Fast diagram, Matrix method.

Various concepts in industrial engineering

a) WAGES AND INCENTIVES, -Concept, Types, Plans, Desirable characteristics.
b) ERGONOMICS, - its importance, Man-machine work place system, Human factors considerations in system design.
c) SUPPLY CHAIN MANAGEMENT, - its definition, Concept, Objectives, Applications, benefits, Some successful cases in Indian Industries.
d) JIT, - Its definition, Concept, Importance, Misconception, Relevance, Applications, Elements of JIT (brief description).
e) MRP,-Introduction, Objectives, factors, Guide lines, Techniques Elements of MRP system, Mechanics of MRP, MRP-II
f) TIME MANAGEMENT,-Introduction, Steps of time management, Ways for saving time, Key for time saves.

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Reference and Textbooks:

- Production planning and control by S.Elion
- Modren production Management by S.S Buffa
- Industrial engg. and management manufacturing system by Surender kumar, Satya prakashan
- Essence of Supply Chain Management by R.P mohanty and S.G Deshmukh
- Industrial engg. and management by S Sharma and Savita sharama

NOTE: In the semester examination, the examiner will set 8 questions in all, at least two question from each unit, and students will be required to attempt only 5 questions, at least one from each unit.

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TT- 434
NONWOVEN TECHNOLOGY

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT-1: Web Formation Technique

Definition of nonwoven, manufacturing steps of nonwoven fabrics, major fibres which are used for manufacturing of nonwovens, classification of nonwoven.

Parallel laying and Cross laying techniques, Aerodynamic laying, wet laying technique, spun-bond technique and melt-blown technique.

UNIT-2: Mechanical Bonding

Needle punching machine, needle board parameters, needle design, needle parameter, needle modification. Factors affecting fabric structure and fabric mechanical properties. Stitch bonding technique- Maliwat & Malivlies Stitch Bonding Technique, Calculation of machine production.

UNIT-3: Chemical and Thermal Bonding

Bonding agents, forms and classes of adhesives or binders, characteristics required, factors affecting adhesion, various bonding technique: spraying bonding, print bonding, saturation bonding.

Advantages of thermal bonding over chemical bonding, different types of binders. Bonding methods: hot calendaring, belt calendaring. Factors that affect the properties of calendar bonded products. Fusion bonding, bonding types: through perforated drums and perforated belts.

UNIT-4

Dry finishing of nonwoven- Shrinkage, Wrenching, Creeping, and Glazing. Wet finishing of nonwoven: Washing, Dyeing, Printing. Chemical finishing: Antistatic, Antimicrobial, Water repellent, Flame retardant, Water absorbency.

Defects of nonwoven fabrics. Test methods for nonwovens. Application of nonwoven materials.

Suggested Text Books and References:

1. Madhavamoorthy, P., Shetty, G.S., NONWOVEN, Mahajan Publishers Pvt. Ltd., 2005
2. Lunenschloss J and Albrecht W," Non-woven Bonded Fabric", Ellis and Horwood Ltd., UK(1985)
3. Krema Radco,"Manual of nonwovens",Textile trade Press, UK(1971)
4. Albrecht W, Fuchs H and Kittelmann,"Nonwoven Fabrics", Wiley-VCH Weinheim(2003)

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TT-436
PROCESSING OF MAN MADE FIBRES AND BLENDED TEXTILES

L	T	P
3	1	-

Sessional: 50 Marks
Exam: 100 Marks
Total: 150 Marks
Time: 3 hrs

Note- Total eight questions will be set in the question paper taking two questions from each unit by the paper setter for the examination. The student will be required to attempt any five questions taking at least one question from each unit.

UNIT -I

Pretreatment of man mades and blends : Pretreatment of polyester , nylon , acrylic, and their blends , viz. singeing ,desizing , scouring , bleaching ,mercerizing and heat setting. Pretreatments machineries.

UNIT –II

Dyeing of man mades : Role of fibre structure in dyeing of man mades .Dyeing of polyester & its blend. HTHP, Thermofixation and carrier dyeing. Dyeing of nylon and its blend. Dyeing of acrylic with disperse, acid and cationic dyes. Dyeing of differentially dyeable man mades.

UNIT – III

Printing of man mades and and blends: Direct, resist and discharge styles of printing of polyester, nylon, acrylic and their blends. pigment printing and carbonised prints of polyester. Transfer printing of polyester , nylon, acrylic and their blends.

UNIT –IV

Finishing of Manmade and Blends: Mechanical finishing: calendaring, raising, emerising, decatising. Optical whitening , anti-pilling and durable press finishes . Soil release, water repellent and flame retardant finishes on manmades and blends. Anti static finish.

Suggested Text Books and References:

1. Nunn D M, "*The dyeing of syntetic polymer and acetate fibres,*" Dyers company publication trust London (1979)
2. Shore J, "*Colorants and auxiliaries* ," Vol-I and II , Society of dyers and colorists , Bradford , England (1990)
3. Gulrajani M L , "*Polyester Textiles* ," Book of paper : 37th National Textile Conference ,The Textile Association (India) Mumbai (1980).
4. Gulrajani M L , "*Blended Textiles* ," Book of paper : 38th National Textile Conference ,The Textile Association (India) Mumbai (1981).
5. Datye K V and Vaidye – A A, " *Chemical Processing of Synthetic Fibres and blends,*" John Wiley and Sons,New York (1984).

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W.E.F. SESSION 2011-12

B.Sc. Part-III

INSTRUMENTATION

Scheme of Examination

Max. Marks 300

Semester -V

Theory Paper-I: Microprocessors –I Max. Marks: 40

(Internal Assessment: 5 Marks + External Examination: 35 Marks Time : 3 Hours)

Theory Paper-II: Instrumentation Systems-I Max. Marks:40

(Internal Assessment: 5 Marks + External Examination: 35 Marks Time : 3 Hours)

Semester –VI

Theory Paper-I: Microprocessors –II Max. Marks: 40

(Internal Assessment: 5 Marks + External Examination: 35 Marks Time : 3 Hours)

Theory Paper-II: Instrumentation Systems-II Max. Marks:40

(Internal Assessment: 5 Marks + External Examination: 35 Marks Time : 3 Hours)

Paper-III: Practical **Max. Marks: 80** **Time: 3+3 Hours (on two days)**

(Details of the Conduct of Practical Examination is noted below)

On- job-Training Viva-Voce **Max. Marks: 60** **(on two days)**

Practical examinations will be held at the end of even semesters i.e., in 2nd, 4th and 6th semesters.

Note*: Instructions for paper setter for theory papers*.

1. The syllabus in each theory paper is divided in 5 units. 10 questions are to be set. Two questions are to be set from each unit and the students are to attempt any 5 selecting at least one from each unit. A student is to attempt 5 questions in all.
2. 20% numerical problems are to be set .
3. Use of simple(non-Programmable) calculator is permissible.
4. Instructions should be imparted using SI System of Units . Familiarity with CGS system of units should also be ensured.

Note: Practical

Practical examinations will be held at the end of even semesters i.e., in 2nd, 4th and 6th semesters.

1. The practical examination will be held in two sessions of three hours each(first session starting in the evening of the first day and the second session in the following morning).
2. Distribution of Marks:

Experiments (Two)	20+20 Marks
Viva Voce	20 Marks
Laboratory Record	20 Marks

3. Laboratory notebook will be assessed by both external examiners. Marks for each experiments, laboratory record and viva voce examination concerning the experiments in the syllabus for each session will be as indicated above.
4. Use of simple(non-Programmable) calculator is permissible

Note: On Job Training: The training will be one month duration and will be undertaken in an industry on a topic approved by the college. The candidates will be required to submit a project report and viva voce will be conducted on the basis of this report.

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Syllabus & Courses of Reading
Semester V

Theory Paper-I: Microprocessors –I

Max. Marks: 40
External Examination: 35 Marks
Time: 3 Hours
Internal assessment: 5 Marks

Unit – I

1. Introduction: Microprocessor its need in instrumentation. Advantages of microprocessor based instrumentation over conventional instrumentation

Unit II

2. Review of digital Electronics: Shift registers, counters, decoders, encoders, tristate buffer and multiplexed display systems.

Unit-III

Memory & Register organization in Microprocessor :

(i) Memory organization: Types of memories (RAM, EPROM, ROM, PROM, DRAM). Basic concepts of memory organization (Number of address lines require, arrangement of memory cells, control lines, memory extension). Concept of control lines such as Read/Write chip enables Register to Register transfer via Data Bus).

(ii) Arithmetic and Logic Unit (ALU) Function of ALU, Detail design of a small ALU. An ALU which perform four basic (4-bit) operations(ADD, SUBT, OR, AND). Need for instruction decoder,. Integration of ID with "ALU" to form an "ALU" with control signals.

(iii) Control and timing unit: Need for this unit, concept of sequence of execution of an instruction. Detail design of control unit.

Unit-IV

3. Introduction to 8085 Architecture:
Block Diagram, Address Bus, Control Bus, Data Bus, need to multiplex address and data bus. Memory organization (with emphasis on multiplexing address and data bus during memory read or memory write). Control and timing Unit, ALu details, registers Flags, memory mapped I/O and I/O mapped I/O.

Unit V

4. Instruction Set:
Introduction, classification of instruction set, op-code format, some basic instructions.

(i) Data transfer instructions, this must include-
a) Immediate addressing b) Register addressing
c) Direct addressing d) Indirect addressing

(ii) Arithmetic and Logic Instructions:
ADD, SUB, AND, OR, XOR, CMP

Books:

1. Microprocessor Architecture, Programming and Application by Gaonkar
2. Digital Computer Electronics by Albent Paul Malvino (TMH) 1st Edition
3. Microprocessors and Applications by Mathur

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Theory Paper-II: Instrumentation Systems-I
Analytical Instrumentation:

Max. Marks: 40
External Examination: 35 Marks
Time: 3 Hours
Internal assessment: 5 Marks

Unit – I

1. Introduction to Instrumentation systems, need for an integrated approach. Zero order, First order, second order systems; dead time element, specification and testing of dynamic response.
   Multiplexer, Demultiplexer, Decoder, Encoder, Tristate buffer, Priority Encoder,
2. Displays and display drivers, Analogue to digital and digital analogue conversion.

Unit II

3. Display systems LED, LCD, Seven segment, CRT, DOT Matrix
4. Filters: passive and active filters, types of filters: first order and second order, low pass, band pass, band reject, and their frequency and phase response.
   (For higher order filters qualitative explanation & not mathematical)

Unit-III

5. Analytical Instruments: Working principle, operation, and data analysis of the following: Spectrophotometer, atomic absorption spectrometer, electron microscopes

Unit-IV

6. Nuclear Magnetic resonance Spectrometer: Principles of operation, sample preparation and data analysis, stability of magnetic fields and electronics.
7. Mass Spectrometer: Application areas, working principles of static and dynamic instruments, analysis of data

Unit V

8. X-ray techniques and dynamic instruments, analysis of X-ray techniques and their application radiography, fluorescence and diffractometry. Interpretation of Data.
9. Mossbauer Spectrometer: Principles of operation, measurement of radioactivity, analysis of data.

Books:

1. Instrumental Methods of Analysis: H Willard, LL Merritt, JA Dean, FA Seattle

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Syllabus & Courses of Reading
Semester VI

Theory Paper-I: Microprocessors –II

Max. Marks: 40
External Examination: 35 Marks
Time: 3 Hours
Internal assessment: 5 Marks

Unit – I

Introduction to 8085 Architecture:

1. Control and Timing:
   Sequence of execution of instruction, Concept of instruction cycle and macjhine cycle. Various types of machine cycles along with associated control and status signals (Opcode, etch, memory read, memory write, I/O read, I/O write, IO/M, SO, SI, MR, MW/ Detail timing diagram of some instructions).

Unit II

2. Advance Instructions:
   Branching, conditional and unconditional subroutines conditional and unconditional concept of stack, need for stock pointer

Unit-III

3. Interfacing:
   Interrupts, classification interrupts, various types of hardware interrupts Software interrupts RSTO to RST7. Instruction associated with interrupts (RIM, SIM, EI, DI) Typical Examples illustration usage.

Unit-IV

4. Interfacing with Peripherals:
   Concept of Input and Output ports. Study of 8255, 8279, 8253(General description, how to programme, usage) Interfacing of A/D and D/A converters

Unit V

5. Introduction to 8086:
   Architecture block diagram, instruction set. Interfacing applications.

Books:

1. Microprocessor Architecture, Programming and Application by Gaonkar
2. Digital Computer Electronics by Albent Paul Malvino (TMH) 1st Edition
3. Microprocessors and Applications by Mathur

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Theory Paper-II: Instrumentation Systems-II
Bio-Medical and Environmental Instrumentation

Max. Marks: 40
External Examination: 35 Marks
Time: 3 Hours
Internal assessment: 5 Marks

Unit – I

1. Bio-Medical Instrumentation: EEG, ECG and other potential working principle and precaution.
2. Blood pressure measurement, introduction to thermodynamics

Unit -II

3. Introduction to ultra sound and tomographic techniques. Interpretation of data and precaution for measurements. Introduction to working principle and operation of pacemakers, diffribillators, heart-lung and other ICU instrumentation.

Unit-III

4. Environmental Instrumentation: General Introduction to physical environment. Physical aspect like pressure, temperature, humidity, noise, visibility, air quality, and water quality.
5. Humid atmosphere, hygrometers, and dew point instruments, controlled humidity environment. Wind velocity and effect on dispersion of pollution. Cup-anemometer, Hot-wire anemometer, Radar.

Unit-IV

6. Particulate matter in air, soiling index and visibility.
7. Sound level meter, tape recorders, noise dosimeters, sound level monitors, and acoustical calibrators.
8. Thermal comfort meter, heat stress monitor, and temperature monitors, solar flux, pyrnometers, and pyreheliometers.

Unit V

9. Water quality by turbidity meter, calorimeter, pH meter, microscopes, atomic absorption spectroscopy.
10. Air-quality measurement, using gas chromatography, high pressure liquid chromatography, gas chromatography, mass spectrometer, conductivity meter, Congenial environment for work, artificial lightening, acoustic consideration, and air-conditioning,.

BOOKS:

1. Air-Pollution: Physical and Chemical Fundamentals, JH Seinfeld, Mc-Graw Hill, New York, 1975
2. Meteorological Instruments: WE Knowles, Middleton and AF Spilhass, University of Toronto Press, 1953.
3. Environmental Instrumentation: LJ Frichtschen, and LW Gay
4. Thermal Comfort: PO Fanger, Robert, E., Krieger Publishing Company

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Paper – III (Practical)
List of Experiments

Max Marks: 80
Time: 6 Hours
(Two Sessions)

Section – I

(i) Design a half-adder using NAND Gates
(ii) Design a 4-bit adder.
(iii) Design a 4-bit adder using 7483.
(iv) Design a 4-bit parallel Adder/ Subtractor using 7483 and 7486 .
(v) Design a code converter (BCD to cyclic codes) using NAND gates
(vi) Design the decoder circuit using NAND Gates
(vii) Design a 8:1 multiplexer using NAND Gates
(viii) Generate f(x,y,z)-xy+yz=xyz on the 8:1 multiplexer
(ix) Use SN 74LS 151 as a parallel to serial converter.
(x) Design a 1:4 demultiplexer using NAND gates.
(xi) Use 741, S138 as a demultiplexer
(xii) Use 74151 and 74138 to design IDM scheme which multiplexer 8 input lines into a single transmission line and then to 8 output lines IS may be controlled parallel using divide by 8 counter.

Section- II

(i) Find the characteristics of an RS flip-flop.
(ii) To study the characteristics of a JK flip-flop.
(iii) To study the characteristics of a D flip-flop.
(iv) Make a ripple binary counter using JK flip-flops.
(v) To construct and study a BCD decade counter using JK Flip-flop.
(vi) Design a controlled counter which counts as a modulo-8 counter when control C=1 and counts as modulo-5 counter. When C=0 using flip-flops.
(vii) Design a modulo-8 up down counter using JK flip-flops.
(viii) Design a 4-bit SISO shift register.

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Course: Bachelor of Science (B.Sc.)

Subject: Electronics

Paper No.	Title of Paper	Max. Marks		Exam Duration
Semester-V				
I	Microprocessor Architecture and Programming-I(Th)	45	5	3hrs
II	Electronic Communication(Th)	45	5	3hrs
Semester-VI				
I	Microprocessor Architecture and Programming-II(Th)	45	5	3hrs
II	Introduction to C & its Programming(Th)	45	5	3hrs
III	Practical(SemV & SemVI)	100		6hrs

Examination Scheme for Semester V & VI

I. Theory Papers(Semester System of Examination)

1. Syllabus in each Theory Paper is divided in 4 units.
   - (i) A Student is required to attempt 5 questions in all.
   - (ii) Question No 1 is compulsory, consisting of short answer type questions based on all the 4 units.
   - (iii) Two questions will be set from each unit. A student is required to attempt one question from each unit.
   - (iv) All questions carry equal marks.
2. Use of simple calculator is permissible.
3. Instructions should be imparted using SI system of units. Familiarity with CGS system of units should also be ensured.
4. Distribution of Marks :

   Paper I –45+5* = 50 marks of 3 hours duration.

   Paper II – 45+5* =50 marks of 3 hour duration.

   * For each paper question paper will be of 45 marks and 5 marks in each theory paper are awarded through internal assessment in each semester.

II. Practical Paper (Annual Examination System)

i) The Practical classes will be held during both V & VI semesters, however, the Practical examination will be held at the end of 6th semester in two sittings of three hours each with First sitting starting in the evening session of the first day and second sitting in the following morning session.

ii) A candidate is required to perform minimum of 6 experiments in Section A and prepare /design one project out of the list provided in section B during course of study in Semester V and Semester VI and is required to perform one experiment from section A in the annual examination in one Sitting and demonstrate the project work in Second Sitting.

iii) Distribution of Marks :

Paper III – 100 Marks of 3+3 Hours duration
Lab Record/ Project Report: 10+10
Experiments/ Project Demonstration: 20 + 20
Viva/Voce (Experiments/ Project): 20+20

iv) Maximum 10 students in one group during course of study and also in Examination.

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Semester-V
Course: B.Sc (Electronics)
Paper Code: Paper- I
Nomenclature: - Microprocessor Architecture and Programming-I

Max. Marks: 45+5*
Time: 3hrs.

UNIT-I
Simple Idea of three state switch & three state bus ,SAP-I (Simple as Possible)Computer, Architecture, Instruction Set, Programming SAP-1, Fetch Cycle, Execution Cycle

Ref: 1 Digital Computer Electronics- A P Malvino (2nd Edition)

UNIT-II
SAP-II Architecture, Instruction set of SAP –II Computer (Memory Reference instructions, Register Instructions, Jump and Call instructions, and Logic instructions) Machine Cycle and Instruction Cycle, Addressing Modes, Instruction Types.

Ref: 1 Digital Computer Electronics- A P Malvino (2nd Edition)
2. Microprocessor Architecture, programming and application with the 8085 by R S Gaonkar

UNIT-III
Delay Calculations, SAP-III programming Model, MOV & MVI, arithmetic instructions, increments, decrements and rotates, logic instructions, Arithmetic and logical immediates, jump instructions, extended register instructions, indirect instructions, stack instructions,

Ref: 1 Digital Computer Electronics- A P Malvino (2nd Edition)
2. Microprocessor Architecture, programming and application with the 8085 by R S Gaonkar

UNIT-IV
Architecture of 8085 Microprocessor, Pin Description of 8085, Instruction set of 8085, Fetching and Executing Instructions, Idea of fetch execute overlap.

Ref: 1 Digital Computer Electronics- A P Malvino (2nd Edition)
2. Microprocessor Architecture, programming and application with the 8085 by R S Gaonkar

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Semester-V
Course: B.Sc (Electronics)
Paper Code: Paper II
Nomenclature: Electronic Communication

Max. Marks: 45+5*
Time: 3hrs.

UNIT-I
Modulation & demodulation :Principle of modulation , amplitude modulation ,percent modulation ,upper & lower side frequencies ,upper & lower side bands, mathematical analysis of a modulated carrier wave, power relations in an AM wave,simple idea about different forms of amplitude modulation. A) DSB-SC B) SSB-TC C) SSB-SC,amplitude modulating amplifier circuit , AM generation plate , and grid modulated system,.

Ref: Radio engineering, vol:2,G.K.Mittal

UNIT-II
Frequency modulation , FM Sidebands, modulation index and number of side bands, mathematical expression for FM wave, Demodulation, diode detector for AM signals. FM detector , Limited and phase shift detectors, comparison between AM & FM.

Ref: Radio engineering, vol:2,G.K.Mittal

UNIT-III
TV fundamentals: elements of TV system(625 line),Aspect ratio, scanning, progressive and inter-laced scanning, number of scanning lines and vertical resolution, Kell factor, horizontal resolution and video band width, factors affecting video band width, composite video signals (concept only)

Ref:Monochrome & colour T.V. by R.R Gulati

UNIT-IV
Block diagram of monochrome TV transmitter and receiver, Videocon camera tube.
Color TV: Compatability, three color theory, luminence ,Hue and saturation, generation of luminance and color difference signals , chrominance signals.

Ref:Monochrome & colour T.V. by R.R Gulati

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Semester-VI
Course: B.Sc(Electronics)
Paper Code: Paper I
Nomenclature: - Microprocessor Architecture and Programming-II

Max. Marks: 45+5*
Time: 3hrs.

UNIT-I

Interrupt: Methods of Input/output operations, Data transfer Schemes, software interrupts, Hardware interrupts, Interrupt control circuits, Interrupt instructions.

Ref: 1 Digital Computer Electronics- A P Malvino (2nd Edition)
2 Microprocessor Architecture, programming and application with the 8085 by R S Gaonkar

UNIT-II

Programmable Pheripheral Interface 8255: operational modes of 8255, control word format for 8255, programming in Mode 0, programming in Mode 1, programming in Mode 2, BSR mode.

Ref: 1 Digital Computer Electronics- A P Malvino (2nd Edition)
2 Microprocessor Architecture, programming and application with the 8085 by R S Gaonkar

UNIT-III

Programmable Interval Timer 8253: Block diagram of 8253, control word format for 8253, Interfacing & programming of 8253, programming of 8253 in various modes.

Ref: 1 Digital Computer Electronics- A P Malvino (2nd Edition)
2 Microprocessor Architecture, programming and application with the 8085 by R S Gaonkar

UNIT-IV

Direct Memory Access Controller 8257: Block diagram, Programming of 8257, Applications to illustrate the use of Microprocessor in:

1. Traffic light
2. Temperature control
3. Stepper Motor control
4. Washing machine control.

Ref: 1 Digital Computer Electronics- A P Malvino (2nd Edition)
2 Microprocessor Architecture, programming and application with the 8085 by R S Gaonkar

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Semester-VI
Course: B.Sc (Electronics)
Paper Code: Paper II
Nomenclature: - Introduction to C & its Programming

Max. Marks: 45+5*
Time: 3hrs.

UNIT-I
C.Fundamentals:The character set , identifiers & keyw
ords ,data types,constants,variables& arrays <declaration,expressions statements,symbolic constants.
Operators and expressions : Arithmatic operators, uniary operators, relational and logical operators, assignment operators, conditional operators.
Ref: Schaum's Outline series: Theory and problems of programming with C by Byron S. Gottfried

UNIT-II
Data input and output: Entering input data- The scanned function, Writing output data- The print function.
Control statements: While statement ,Do-while statement, For statement, If-else statement, switch statement , break statement , continue statement.
Ref: Schaum's Outline series: Theory and problems of programming with C by Byron S. Gottfried

UNIT-III
Function: Defining a Function, Accessing a Function, passing arguments to a Function, specify arguments, data types.
Ref: Schaum's Outline series: Theory and problems of programming with C by Byron S. Gottfried

UNIT-IV
Arrays: Defining an Array , processing an Array, Passing arrays to a function, Multidimensional arrays, arrays and strings.
Pointers: Fundamentals, pointer declaration , passing pointers to a function , pointers and one dimensional arrays, operations on pointers.

Ref: Schaum's Outline series: Theory and problems of programming with C by Byron S. Gottfried

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Course B.SC. (ELECTRONICS)
Semester V & VI

Paper Code III (Practical)
Total Marks:100 **Time : 3+ 3 Hours**
Practical: 50 (Experiment:20, Viva-Voce:20, Practical Work Book:10)
Project: 50 (Demonstration :20, Viva-Voce:20, Project Work Book:10)

Each Student is to perform at least six experiments from Section-A and prepare one project from Section-B.

Section-A

1. (a) Addition of Two 16 Bit Numbers or microprocessor-Kit.
   (b) Subtraction of two 16 Bit numbers on Micropocessor-Kit.
2. Multibyte Addition/Subtraction of two numbers by repetitive addition/subtraction on Microprocessor-kit.
3. Division of two 8-Bit numbers by repetitive subtraction on microprocessor-Kit.
4. Multiplication of Two 8-Bit Numbers on Microprocessor –Kit.
5. Find the smallest/largest number from a give series of numbers on Microprocessor-Kit.
6. To sort a given series of unsigned numbers in Ascending/ descending order on Microprocessor-kit.
7. Generate a time delay through software on Microprocessor-Kit.
8. Check even parity/add parity of binary number on microprocessor-Kit.
9. Program to generate Square, Sine and triangular waves using Microprocessor-Kit.
10. Computer Programming in C using if, else, for, while statements.
11. Computer Programming in C using arrays and pointers.

Section-B

1. Digital Frequency meter.
2. Digital Voltmeter.
3. Digital Clock.
4. Infrared Switch
5. Inverter 20/40w. 230 v.A.C
6. Up-Controlled Time Switch.
7. Up-Controlled A/D Converter.
8. Up-Controlled Running Light
9. Up-Controlled D/A Converter.
10. Pc Base Switch
11. Up-Controlled Traffic Light
12. Stereo Amplifier
13. Super Heterodyne Radio Receiver
14. F.M. Receiver
15. FM based Remote Switch.
16. Event Counter

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Course: Bachelor of Science (B. Sc.) 3rd year

Subject: Electronic Equipment Maintenance

Examination Scheme for Semester 5 & 6

I. Theory: One paper of 45+5* marks each in each semester is as follows:-

Semester	Title of Paper	Max. Marks
V	Computer Hardware & Maintenance - I	45+5*
VI	Computer Hardware & Maintenance - I	45+5*

*** Internal Assessment: 5+5=10 marks in both the semesters that will be based on the House Exams and Attendances.**

The syllabus in each paper is divided into 4 units. Two questions will be set from each unit. A student has to attempt 5 questions in all selecting one question from each unit. Question No. 1 is compulsory which will be based on 4 units.

II. Practical: 100 marks

Note: On Practicals:

1. A student is required to perform a minimum of 5 experiments from each section.
2. The practical examination will be held at the end of 6th semester in two sessions of three hours each with first session starting in the evening of the first day and second session in the following morning.
3. Maximum number of students should not exceed ten in one group during course of studies as well as annual examinations.
4. Distributions of marks is as under:
   Experiment Performed: **20+20**

   Lab Record: **20**

   Viva Voce: **20+20**

III. Lab Project: 100 marks

An Electronics Project, relating to its design, fabrication, repairing, testing, etc. is to be developed by each student in the College Laboratory. Apart from Practical Lab classes, each student has to work for four hours per week in laboratory during the session. Each student has to submit a Project Report (in typed form). The project demonstration and report evaluation will be done by a panel of two examiners (One Internal and One External) at the end of 6th Semester.

Note:- Maximum number of students should not exceed ten in one group during project work in the laboratory.

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Semester-5
Subject: EEM
Paper-Theory
Nomenclature: Computer Hardware & Maintenance-I

Max. Marks: 45+5*
Time : 3 hrs.

Unit-I

Personal Computer: Evolution PC through Pentium, specifications of different styles of PCs, Functional Block diagram of PC and its various parts, Input/Output ports.

Unit-II

Inside PC: Motherboard, Basic Input/Output System (BIOS), Bus Standards, SMPS and linear power supply (Brief Idea and comparison).
On Board Memory & Magnetic Media: PC Memory Organization, Memory Packages, Magnetic Storage Fundamentals, diskette basics, Disk organisation in DOS, FDD Types and capacity, HDD sub assemblies.

Unit-III

Input Devices: Keyboard basics, operation and types, keyboard signals, interface logic, keyboard functions; Mouse construction, principle of operation, mouse signals; Scanner types and principle of operation.
Output Devices: Basic mechanism of CRT Controller, types of display adaptors; Basic mechanism of Inkjet and Laser Printer.

Unit-IV

CD-ROM Drive: Principle of operation and construction, Comparison of DVD and CD, Caring for CD and DVD discs, rear and front view details of CD/DVD drives.
Computer Communication: Modem Construction and operation, Internet and its features.

Ref.:

1. IBM PC Clones by Govindarajalu
2. PC Hardware: The Complete Reference by C. Zacker, J. Rourke
3. PC Hardware by Ron Gilster

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Semester-6
Subject: EEM
Paper-Theory
Nomenclature: Computer Hardware & Maintenance-II

Max. Marks: 45+5*
Time : 3 hrs.

Unit-I

PC Installation and room preparation, Power Supply problems, offline and online UPS (basic idea), Boot Process, basic functions of POST and its test sequences.

Unit-II

Motherboard (possible problems, diagnosis procedure and their troubleshooting), Keyboard (possible problems, diagnosis procedure and their troubleshooting), Mouse troubleshooting common symptoms, Monitor (troubleshooting common symptoms), Printers (possible problems, diagnosis procedure and their troubleshooting).

Unit-III

CDROM (Installation upgradation and replacement), FDD (Installation and Replacement and troubleshooting common symptoms), HDD (Preparation Concepts, Installation and replacement and troubleshooting common symptoms), Memory (upgradtion and troubleshooting common symptoms)

Unit-IV

Computer Maintenance using various diagnostic software, universal troubleshooting process, computer viruses and their types, virus protection techniques, quick start bench testing, tips for windows startup problems.

Ref.:

1. IBM PC Clones by Govindarajalu
2. PC Hardware: The Complete Reference by C. Zacker, J. Rourke
3. PC Hardware by Ron Gilster

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SEMESTER 5 & 6
Subject: EEM
Paper-III (Practical)

Max. Marks: 100
Time: 3+3 hrs.

Note: Minimum 5 experiments are to be performed from each section.

Section-A (Television Receiver)

1. To identify various sections of a TV Receiver; to understand basic working of TV receiver and the main functions of various sections.
2. Location, Orientation and Connection of TV antenna; main faults of antenna and their rectification; knowledge of Balun unit and its replacement.
3. Study of Power supply cold tests and hot tests, voltage measurement at various points and the common faults in power supply.
4. Study of IF section testing by voltage measurement.
5. Study of Horizontal and vertical section testing.
6. Study of Audio section testing by voltage measurement.
7. Study of common faults and their rectification in a TV receiver.
8. Chroma processor: testing signals at various IC's.
9. Remote control studies: range, direction, various control transmitter and receiver, coding of signals.

Section-B (Computer Installation and Maintenance)

1. To set the working environment in DOS, DOS set-up, familiarization with basic DOS commands.
2. Installation of Windows operating system and other software.
3. Installation of various input devices (Mouse, Scanner) in a PC system.
4. Installation of various devices (printers, CDROM Drive) in a PC system.
5. Maintenance and cleaning of diskette drives, keyboard, mouse, etc.
6. To identify various cards, assembly and disassembly of a PC system.
7. To study Power supply problems, its various symptoms and solutions; testing and replacement of UPS battery pack; power management through windows.
8. Familiarization of various diagnostic tools and to understand, to detect and to remove the viruses in a system.
9. To study various faults of a CRT monitor and their troubleshooting.
10. To identify various parts/chips on a motherboard and to diagnose its basic faults.

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Course: B.Sc. (Hons.) Information Technology

Paper No	Nomenclature of the Paper	Max Marks		Pass Marks	Exam Duration
		External	Internal		
	Semester V				
BSIT -501	Computer System Architecture-I(Th)	45	5	20	3hrs
BSIT -502	Programming In C++ - I (Th)	45	5	20	3hrs
BSIT -503	Web-Site Design Implementing Basic Design Tools-I (Th)	45	5	20	3hrs
BSIT -504	Internet Concepts & Applications-I (Th)	45	5	20	3hrs
BSIT -505	Microprocessor Architecture and Programming-III(Th)	45	5	20	3hrs
	Semester VI				
BSIT -601	Computer System Architecture-II(Th)	45	5	20	3hrs
BSIT -602	Programming In C++ - II(Th)	45	5	20	3hrs
BSIT-603	Web-Site Design Implementing Basic Design Tools-II(Th)	45	5	20	3hrs
BSIT-604	Internet Concepts & Applications –II (Th)	45	5	20	3hrs
BSIT-605	Embedded Systems & 8051 Microcontroller(Th)	45	5	20	3hrs
BSIT-606	Programming In C++ (IT Lab IX)	50		20	3hrs
BSIT-607	Internet Concepts & Applications (IT Lab X)	50		20	3hrs
BSIT-608	Project (IT Lab XI)	100		40	3hrs

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Examination Scheme for Semester V & VI

I. Theory Papers(Semester System of Examination)

1. Syllabus in each Theory Paper is divided in 4 units.
   i. A Student is required to attempt 5 questions in all.
   ii. Question No 1 is compulsory, consisting of short answer type questions based on all the 4 units.
   iii. Two questions will be set from each unit. A student is required to attempt one question from each unit.
   iv. All questions carry equal marks.
2. Use of simple calculator is permissible.
3. Instructions should be imparted using SI system of units. Familiarity with CGS system of units should also be ensured.
4. Distribution of Marks in all theory papers:

Paper (BSIT -501, 502,503, 504, 505) –45+5* = 50 marks of 3 hours duration.

Paper (BSIT -601, 602,603, 604, 605) –45+5* = 50 marks of 3 hours duration.

* For each paper question paper will be of 45 marks and 5 marks in each theory paper are awarded through internal assessment in each semester.

II. Practical Paper BSIT-606,BSIT-607,BSIT-608 (Annual Examination System)

i) The Practical classes will be held during both V & VI semesters; however, the Practical examination will be held at the end of 6th semester in one sitting of three hours each practical paper.

ii) A candidate is required to perform 1 experiment out of the list provided during course of study in Semester V and Semester VI .

iii) Distribution of Marks for Paper BSIT-606 & BSIT-607 :

50 Marks of 3 Hours duration for each practical paper
Lab Record: 10
Experiments: 20
Viva/Voce : 20

iv) Distribution of Marks for Paper BSIT-608

100 Marks of 3 Hours duration
Project File: 25
Demonstration: 50
Viva/Voce : 25

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Semester-V
Course. B.Sc. (Hons) IT
Paper Code: BSIT - 501
Nomenclature: - Computer System Architecture-I

Max. Marks: 45+5*
Time: 3hrs.

UNIT -I

Basic Computer Organisation and Design: Instruction Codes, Computer registers, Computer Instructions, Timing and Control, Instruction Cycle, Memory reference instructions, Input-Output and Interrupt, Design of Basic computer, Design of accumulator logic

UNIT -II

Register Transfer and Microoperations: Register Transfer Language (RTL), register transfer, Bus and Memory Transfers, Arithmetic Microoperations, Logic Microoperations, Shift Microoperations, Arithmetic Logic Shift Unit

UNIT -III

Microprogrammed Control: Control memory; address sequencing, microprogram sequencer, Design of Control Unit

UNIT -IV

Central Processing Unit: General registers Organization, Stack Organization, Instruction formats, Addressing Modes, Data Transfer and Manipulation, Program Control, Program Interrupt, Reduced Instruction Set Computer (RISC), CISC characteristics.

References : 1. Computer System Architecture By. Moris Mano
2. Computer Architecture and Organization By J.P. Hayes

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Semester-V
Course. B.Sc. (Hons) IT
Paper Code: BSIT - 502
Nomenclature: - Programming In C++ - I

Max.Marks:45+5*

Time :3 hrs

UNIT –I

Concepts of OOPS , Structure of C++, C++ data types, pointer, constant reference, enumeration, operators (arithmetic, relational, logical and bitwise) and their precedence, Control flow statements.

UNIT –II

Array ,Strings, Structures ,Union and Pointers

UNIT –III

Functions, scope and the free store allocation, recursion, in line functions, argument passing, reference and array argument, overloaded function names, template functions, pointer to function, type –safe linkage.

UNIT –IV

Class definition, class objects, member functions, implicit this pointer, static class members, class scope, constructors and destructors.

References:

1. C++ the complete reference – Strou Strup (Adison Wesley)
2. Let us C++ - Kanetkar (BPB)
3. C++ program design – James Cohoon, Jack Davidson (TMH)
4. Object oriented programming with C++ - Balagurusamy (TMH)

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Semester-V
Course. B.Sc. (Hons.) IT
Paper Code: BSIT - 503
Nomenclature of paper : Web-Site Design Implementing Basic Design Tools-I

Max.Marks:45+5*

Time :3 hrs

Unit- I

HTML : Introduction ,basic structure elements, Categories of body elements (study atleast one example), To view pages in browsers and HTML source, Nesting rules, beautification of documents using tags,Changing color schemes and fonts(study at least one example)

Unit -II

Classify HTML document,various headsection elements, specifying language information ,Lang attribute, Block level elements,Text level elements, Front style elements, Phrase elements, Ins & Del elements

Unit -III

External Link attributes(HREF,Anchor text,title,name,target),Internal Link using URLs (absolute & relative),default pages,jump to Named Anchor with Internal Link ,Verifying and maintaining tools.

Unit- IV

Understanding Table, Table model for HTML 4.0(elements & attributes).

Reference:

1. HTML 4.0 by E.Stephen Mack & Janen Platt
2. HTML Example book by Farrar & Smith (BPB)
3. The Complete Reference HTML by Thomas A. Powell (TMH)
4. Multimedia : on the web by MC Gloughilin (PHI)

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Semester-V
Course. B.Sc. (Hons) IT
Paper Code: BSIT - 504
Nomenclature of Paper : INTERNET CONCEPTS & APPLICATIONS-I

Max.Marks:45+5*

Time :3 hrs

UNIT-I

Need of information, Internet construction concepts , e-mail concepts , e- mail tasks, e- mail attachments, mailing lists, filtering e- mails , controlling e-mail spam.

UNIT-II

Protocol, File transfer concepts, filer transfer protocol [FTP] programmes,TCP/IP FAQs, remote login [telnet], network news.

UNIT-III

World wide web concepts , search engines and web directories[basic idea] , web resources, applications [in brief]

UNIT-IV

Types of Internet Connection –Dial Up Connection, ISDN,DSL, Cable TV Internet Connection, Satellite Internet Connection,Wireless Internet Connection.

References:

1. The Complete Reference: Internet , Millennium Edition- Margret Levine Young

2. The Internet Book – Douglas E. Corner [PHI]

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Semester-V
Course: B.Sc (Hons.)IT
Paper Code: BSIT 505
Nomenclature: - Microprocessor Architecture and Programming-III

Max. Marks: 45+5*
Time: 3hrs.

UNIT-I
Introduction to stack, stack structure of 8086, interrupts and interrupts service routines, interrupt cycle of8086, non maskable interrupt, maskable interrupt (INTR), interrupt programming, passing parameters to procedures, handling programs of size more than 64K, MACROS, timings and delays.

UNIT-II
Basic Peripherals and their Interfacing with 8086: semiconductor memory interfacing, dynamic RAM interfacing, interfacing I/O ports.

UNIT-III
Interfacing A/D data converters, interfacing D/A converters, Interconnection topologies, software aspects of multimicroprocessor systems, Numeric Processor 8087,

UNIT-IV
Salient features 80286, 80386, 80586, Pentium 4, Basic features of RISC Processsors and Design issues of RISC Processors.

References:
1. Advanced Microprocessors & Peripherals By Ray & Bhurchandi (Tata McGraw Hill)
2. Microprocessors and Interfacing (Programming and Hardware) by Douglas V. Hall.
3. Advance Microprocessors & IBM-PC Assembly language Programs By Udaya Kumar
4. Microprocessors Principles and Application 2nd edition By Gilmore

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Semester-VI
Course. B.Sc. (Hons.) IT
Paper Code: BSIT - 601
Nomenclature: - Computer System Architecture-II

Max. Marks: 45+5*
Time: 3hrs.

Unit –I

Pipeline and Vector processing: Parallel Processing, pipelining, Instruction Pipeline, Risc Pipeline , Vector Processing.

Unit-II

Memory Organization: Memory hierarchy, Auxiliary Memory, Associative Memory, Interleaved memory, Cache memory, Virtual Memory, Memory Management Hardware.

Unit-III

Multiprocessors : Characteristics of Multiprocessors, Interconnection Structures.

Unit-IV

Input Output Organization : Peripheral devices , Inut-Output Interface, Asynchronous data transfer, Modes of Transfer, Priority Interrupt, Direct Memory Access(DMA),Input-Output Processor(IOP),Serial Communication

References:

1. Computer System Architecture By. Moris Mano
2. Computer Architecture and Organization By J.P. Hayes

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Semester-VI
Course. B.Sc. (Hons.) IT
Paper Code: BSIT - 602
Nomenclature: - Programming In C++ - II

Max.Marks:45+5*

Time :3 hrs

UNIT-I

Friend functions. Friends to a class, Operator overloading .

UNIT-II

Class derivation and inheritance, derivation specification, public , protected and private base classes, class scope under derivation, inheriting operator functions.

UNIT –III

Virtual functions, virtual base class, template class definition , instantiation and specialization: its static members)

UNIT-IV

File input and output, Stream Classes ,Exception handling , the catch handler, try block and throw clause, function throw list.

Refrences:

1. C++ the complete reference – Strou Strup (Adison Wesley)
2. Let us C++ - Kanetkar (BPB)
3. C++ program design – James Cohoon, Jack Davidson (TMH)
4. Object oriented programming with C++ - Balagurusamy (TMH)

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Semester-VI
Course. B.Sc. (Hons.) IT
Paper Code: BSIT - 603
Nomenclature of paper : Web-Site Design Implementing Basic Design Tools-II

Max.Marks:45+5*

Time :3 hrs

UNIT-I

Under standing Frames ,Creating frameset documents,Nested FrameSet , In Line Frames
Understanding Forms : Forms Attributes , Form Controls .

Unit-II

Multimedia : Image element attributes , Image as links , Image maps, Image files and formats,Audio & Video formats(a brief introduction), adding multimedia to webpages.
Front page : Introduction, creating simple web pages

UNIT-III

Cascading Style Sheets , Inline Style, External Style, Embedded Styles , CSS Properties

UNIT-IV

Extensible Markup Language (XML): Introduction, features , XML support & usage , Structure of XML document, Structures in XML , Creating document type declarations, flow objects, working with text & font , color & background properties.

Reference:

1. HTML 4.0 by E.Stephen Mack & Janen Platt
2. HTML Example book by Farrar & Smith (BPB)
3. The Complete Reference HTML by Thomas A. Powell (TMH)
4. Multimedia : on the web by MC Gloughilin (PHI)
5. Internet & Web Technology by Raj Kamal (TMH)
6. Internet & Web Design ,ITLESL Research & Development Wing , Macmillian India
7. Multimedia & Web Technology by Ramesh Bangia (Firewall Media)

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Semester-VI
Course. B.Sc. (Hons.) IT
Paper Code: BSIT - 604
Nomenclature of Paper : INTERNET CONCEPTS & APPLICATIONS-II

Max.Marks:45+5*

Time :3 hrs

UNIT-I

Computer security [an introduction] cryptography, data encryption standards, definitions , breaches of security, security of measures. Classification of virus, prevention and cure, cookies[basic idea]

UNIT-II

Multimedia concepts , multimedia design considerations, performance and size, online chatting and conferencing concepts

UNIT-III

E- commerce: Meaning and Types , Evaluation , types of sites , selling via secure servers interacting with customers ,EDI, EFT .

UNIT-IV

Intranet, Intranet vs. Groupware, Intranet Hardware, Intranet Software, Intranet Services (Web (HTTP) Publishing,HTML,Hypertext),Communication Systems (Email, Fax), Software used in Electronic mail, Electronic Meeting Systems(Audio conferencing, Video Conferencing, Groupware), Extranet.

REFERENCES:

1. The Complete Reference: Internet , Millennium Edition- Margret Levine Young
2. The Internet Book – Douglas E. Corner [phi]
3. Multimedia On The Web- Stephen Mc Gloughlin [phi]
4. Learning Guide To Internet[PB. BPB]
5. Business On The Net- Mcmillan

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Semester-VI
Course: B.Sc (Hons.)IT
Paper Code: BSIT 605
Nomenclature: - Embedded Systems & 8051 microcontroller

Max. Marks: 45+5*
Time: 3hrs.

UNIT-I

Embedded systems – introduction, role of processor and other hardware units, embedded systems on chip, Introduction to CISC and RISC architecture. Structural units of processor, processor selection for embedded system, memory devices for embedded systems

UNIT-II

Microcontrollers- survey, types, processor architecture, microcontroller memory types, microcontroller features, Microcontroller 8051 Architecture :Hardware, I/O pins, ports and circuits, external memory, counters and timers

UNIT-III

Serial data Input/output, Interrupts 8051 instruction set – data Move Instructions, Logical operations, Arithmetic operations, Jump and call Instructions

UNIT-IV

An 8051 Microcontroller design: Specifications, a microcontroller design, testing the design, timing subroutines, Lookup tables, Serial data transmission

References:

1. Embedded Systems Architecture, Programming and Design, by Raj Kamal, TMH, 2003.
2. The 8051 Microcontroller by Kenneth J. Ayala, Penram International.
3. Programming and Customizing 8051 Microcontroller by Myke Predko, Tata McGraw Hill.

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Semester V & VI

Paper Code : BSIT-606

Nomenclature of paper : Programming In C++ (IT Lab IX)

Maximum Marks :50
Time : 3 Hrs

1. Program to study the behavior of data types i.e. their min. & max. values & their size.
2. Program that accepts a text from the keyboard and prints the no. of characters, vowels, words, lines.
3. program to determine whether the substring accurse within a string and other useful string operations
4. Program to implement a function to compare two arrays for equality. Be sure to define what it means for two arrays to be equal.
5. Program to add two integers of more tan 25 digits length.
6. Program to implement bubble and insertion sort algorithms.
7. program to implement a recursive function for implement quicksoft algorithm.
8. program to implement a Stack Class and define push and pop operations clarify the public and private members.
9. Program to implement a Queue Class and define insert and delete methods and necessary exception handling routines.
10. Implement a point as a base Class which defines a pixel in graphics Coordinate system. Derive Line and Circle classes from Point Class and define suitable method to draw them and make them invisible on the screen.
11. Redefine Point Class defied previously to include virtual functions. Inherit line, Circle, Rectangle, Ellipse classes. Through the help of virtual functions draw these entities and remove them from the screen.
12. Define a Node class to implement a linked list. The node carries the information of non-zero elements of a two-dimensional matrix. Define add delete methods to insert and remove elements from the linked list.

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Semester V & VI
Paper Code: BSIT-607
Nomenclature of paper : INTERNET CONCEPTS & APPLICATIONS (IT Lab X)

Maximum Marks : 50

Time : 3 hours

I. Create, save and view a basic HTML page.
II. Use of body section tags in Web-page.
III. Use of head section elements and meta tags in web-page.
IV. Use of block-level elements.
V. Use of external and internal links in a Document.
VI. Use of colour and image tage for image insertion and background images and colours
VII. Incorporate multimedia (sound & video) elements in website/web-page.
VIII. Generation of table using HTML 4.0 table model.
IX. Create documents using frames with multiple views.
X. Setting-up of a dial-up Internet account and its testing.
XI. To send and to receive e-mails & files using various e-mails clients.
XII. Learn to set-up internet for use as :- (a) Chat Client (b) Intant Messenger.
XIII. Practice the use of at least two Web-browsers and to search internet using search-Engines.
XIV. To download & upload Software/fils from an FTP Server using GUI and CUI FTP clients.
XV. To connect with a remote machine using TELNET, to access information.
XVI. Creating Web Pages using XML.

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Semester V & VI
Paper Code: BSIT-608
Nomenclature of paper :Project(IT Lab –XI)

Maximum Marks : 100

Time : 3 hours

PROJECT WORK AND VIVA-VOCE

Note:-

I. Three copies of nicely bound project reports should be submitted by each student.
II. A student can do his project work in any of the following programming languages/software package-C, C++,
Visual Basic , HTML etc.

Project Work (To be submitted by 31st March).

Each student shall be required to undertake a real life project problem during the final year of B. Sc. (IT) under the supervision of a faculty during the final year of Technology of the college concerned. The project work many be development assignment in a real environment.

Report-on Project work will consist of the following:

I. Index
II. A duly signed certificate from supervisor certifying that the candidate has done the project under his supervision and the work done in the project is the result of candidate's own effort.
III. A certificate from college principal certifying that the candidate is the student of this college and he has attended the college IT Labs for required no of days.
IV. Acknowledgement duly signed by student.
V. Introduction of Topic.
VI. Objective of the project.
VII. Definition of the problem.
VIII. Input design, output design, File design.
IX. System documentation and flowchart.
X. Listing of the software development along with sample inputs inputs and output.
XI. Conclusions.
XII. Advantages and disadvantages of the software developed.
XIII. Further scope of the project.
XIV. References.

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KURUKSHETRA UNIVERSITY
Bachelor of Business Administration (BBA)
Scheme of Examination

Subject Code	Papers	External Marks	Practical	Internal Marks	Total Marks	Duration
Semester –I						
BBA-101	Business Organisation	90		10	100	3 Hrs
BBA-102	Business Accounting	90		10	100	3 Hrs
BBA-103	Managerial Economics-I	90		10	100	3 Hrs
BBA-104	Business Mathematics-I	90		10	100	3 Hrs
BBA-105	Hindi	90		10	100	3 Hrs
BBA-106	Computer Fundamentals	50	40	10	100	3 Hrs
BBA-107	Seminar				50	
Semester -II						
BBA-108	Principles of Management	90		10	100	3 Hrs
BBA-109	Analysis of Financial Statements	90		10	100	3 Hrs
BBA-110	Managerial Economics-II	90		10	100	3 Hrs
BBA-111	Understanding Social Behaviour	90		10	100	3 Hrs
BBA-112	Business Mathematics-II	90		10	100	3 Hrs
BBA-113	Business Communication-I	90		10	100	3 Hrs
BBA-114	Viva-Voce				50	
Semester -III						
BBA-201	Understanding Human Behaviour	90		10	100	3 Hrs
BBA-202	Micro Business Environment	90		10	100	3 Hrs
BBA-203	Business Statistics-I	90		10	100	3 Hrs
BBA-204	Management Accounting	90		10	100	3 Hrs
BBA-205	Fundamentals of DBMS and ORACLE	50	40	10	100	3 Hrs
BBA-206	Business Communication-II	90		10	100	3 Hrs
BBA-207	Seminar				50	

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Subject Code	Papers	External Marks		Tota	
Semester -IV					
BBA-208	Human Behaviour at work	90	10	100	3 Hrs
BBA-209	Macro Business Environment	90	10	100	3 Hrs
BBA-210	Business Statistics-II	90	10	100	3 Hrs
BBA-211	Marketing Management	90	10	100	3 Hrs
BBA-212	Financial Management	90	10	100	3 Hrs
BBA-213	Principles of Material Management	90	10	100	3 Hrs
BBA-214	Viva-Voce			50	

The students are required to undergo 6 to 8 weeks training in company/ organization of high repute. The students must obtain prior approval of the Principal before going for his/ her training. On completion each students will be required to submit training report not exceeding 60 to 70 pages which shall be evaluated in the Fifth Semester. Training Report must be submitted 15 days before the start of the 5th Semester Examination.

Subject Code	Papers	External Marks	Internal Marks	Total Marks	Duration
Semester -V					
BBA-301	Business Laws-I	90	10	100	3 Hrs
BBA-302	Principles of Retailing	90	10	100	3 Hrs
BBA-303	Principles of Banking	90	10	100	3 Hrs
BBA-304	Fundamentals of E-Commerce	90	10	100	3 Hrs
BBA-305	Export Procedure and Documentation	90	10	100	3 Hrs
BBA-306	Principles of Production Management	90	10	100	3 Hrs
BBA-307	Viva-Voce			50	
BBA-307-A	Training Report			100	
Semester -VI					
BBA-308	Entrepreneurship Development	90	10	100	3 Hrs
BBA-309	Business Laws-II	90	10	100	3 Hrs
BBA-310	Logistic Management	90	10	100	3 Hrs
BBA-311	Principles of Insurance	90	10	100	3 Hrs
BBA-312	Introduction to Financial Services	90	10	100	3 Hrs
BBA-313	Viva –Voce			50	

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BBA-301: BUSINESS LAW-I

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

BUSINESS LAWS - I

The Indian Contract Act, 1872: Major Provisions of the Act relating to Contracts, Indemnity and Guarantee, Bailment and Agency.

Indian Sales of Goods Act, 1930: Legal Aspects relating to Formation of Contract of Sales and their classification; Prices; Conditions and Warranties; Transfer of property in goods. Performance of the contract of Sales, Unpaid seller and his rights.

Negotiable Instruments Act 1981: Important Legal provisions and Implications.

Suggested Readings:

- M.C. Kuchhal: Mercantile Law, Vikas Publishing House, New Delhi,
- N.D. Kapoor: Business Law. , Sultan Chand & Sons, New Delhi
- Gogna PPS: Business Law. New Age Publishing Company.
- P C Tulsian, Business Law. Taxmann Publications
- Ashok Goel, Business Law, V K Publications .
- Avtar Singh, Mercantile Law, Eastern Book Company.

BBA-302: PRINCIPLES OF RETAILING

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

Principles of Retailing

Retailing : Definition, nature and importance of retailing in the Indian economy, functions of retailers, classification of retailers. The concept of organised retail, difference between organized retailing and unorganized retailing. Nonstore retailing and service retailing. Retailing as a career. Retail Customer; stages of the customer buying process , types of consumer buying behaviours , factors affecting buying

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decision process, consumer decision making procedure in retail perspective .Store Location; meaning, types of retail locations, factors for choosing a location. Store layout and Design; key considerations in store layout, factors of design decisions, importance of layout, steps for designing layout.The Retailing Organisations; organisation structures and HR functions in these organizations. Retail Merchandising; meaning, the process of merchandise planning, merchandise budget, methods of merchandise procurement, controlling the merchandise. Technology in retailing.

Suggested Readings:

1. Pradhan,Swapna. Retailing Management,Tata McGraw-Hill Publishing Company Ltd.
2. Sheikh,Arif.Fatima,Kaneez. Retail Management, Himalaya Publishing House Pvt. Ltd.
3. Cox, Roger. Brittan Paul. Retailing- An Introduction,Pearson Education
4 Bajaj, Chetan. Tuli,Rajnish. Srivastava Nidhi V. Retail Management, Oxford University Press.
5 Hasty, Ron. Reardon, James. Retail Management, The McGraw-Hill Companies, Inc.
6 Sidhpuria, Manish V. Retail Franchising, The McGraw-Hill companies.
7 Gilbert, David. Retail Marketing Management, Pearson Education.
8 Dhotre, Meenal. Channel Management and Retail Marketing, Himalaya Publishing House Pvt. Ltd

BBA-303: PRINCIPLES OF BANKING

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

Bank – Concept, Classification their objectives & functions. Bank Management concept,Functions, Importance.

Legal framework of regulation of banks: Banking Regulation Act 1949 and main amendments, RBI Act 1934 and main amendments. Functions of RBI.

Banking forms - Corporate Banking, Rural Banking, Retail Banking, International Banking, e- Banking reforms in banking after 1991.

Banker-customer relationship: Payment and collection of cheques; special services Rendered by Banks. .

.

Banking technology: computerization, internet, mobile and ATMs, security issues, priority Sector lending; performance analysis of banks

Suggested Readings:

1. Justin Paul and Padmalatha Suresh, ‘Management of Banking and financial services’. TMH 2009.
2. M. Ravathy Sriram and P.K. Bamanan, ‘Core banking solution’ PHI 2008
3. Jyotsna Sethi and Nishevan Bhatia, ‘ Elements of Banking and Insurance’ PHI 2008.
4. Vijayaragavan Iyengar, ‘Introduction to Banking’ Excel Books Pvt. Itd. 2007.
5. Viganim, BML, ‘Banking, law and practice’ Konak Publication 2005
6. K.C. Shekhar, Lakshmy Shekhar, ‘Banking, theory and practice’ Pearson publications, 2009

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BBA-304: FUNDAMENTALS OF E COMMERCE

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

Overview of e-commerce:- Definition, benefits of e-commerce, role of internet in e-commerce, implications of e-commerce for accounting professionals.

Regulatory environment:- cryptography issues, privacy issues (children's issues, adults rights), domain name disputes, electronic agreements & digital signatures, internet service provider, firewalls, tcp/Ip, OSI, components of firewall, limitations of the security preventions provide by firewalls.

EDI e-commerce & internet:- traditional EDI systems(origin, non EDI systems), value added networks, partially & fully integrated EDI systems, benefits of EDI systems, financial EDI & EDI systems & internet.

Intelligent agents, web based marketing, risk management paradigm, role of internet, controls in risk management.

Suggested Readings

- E-Business Revolution by Daniel Ama.
- E-Commerce, A manager, Guide by Ravi kalakota & Andrew B.Whinstron
- E- Commerce in Indian Banking by T.M Bhasin Authors press, New delhi.

BBA-305: EXPORT PROCEDURES AND DOCUMENTATION

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

Entering Export Business- Procedures and Formalities.

Key Documents Required in Export Business- A Detailed Discussion.

Aligned Documentation System.

Processing of an Export Order- Stages and Roles Played by Various Parties.

Methods of Payment in International Business.

INCOTERMS.

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Institutional Infrastructure for Indian Exporters.

Export Incentives and Schemes.

EXIM Policy.

Management of Risk in Export Business.

SUGGESTED READINGS

- Khurana, P.K., Export Management, Galgotia Publishing Company.
- Joshi, R.M. International Marketing, Oxford Publications
- Varshney, Bhattacharya, International Marketing, Sultan Chand & Sons.
- Pepsi Handbook of Indian Exports, Global Business Press.
- Rathore, B.S., Export Marketing, Himalaya Publishing House.

BBA-306: PRINCIPLES OF PRODUCTION MANAGEMENT

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

Principles of Production Management

Product-nature and types. Production as a System- Nature, Types and Significance. Decision making in production function, importance and organisation of production function. Production Management-production planning and control; factors determining. Production Process- requisition, ordering, purchasing, warehousing, methods of production, storing and placing. Make or Buy decision, Inventory management techniques-EOQ, FIFO, LIFO, ABC and VED analysis. Inspection and Quality control in production. ISO certification and Statistical Quality Control in Production.

Suggested Readings:-

1. K. Aswathappa and K. Shridhara Bhat, Production and operations management, Himalaya publishing House.
2. S. N. Chary, Production and operations management, Tata McGraw Hill companies.
3. Richard B. Chase, Jacobs, Aquilano and Aggarwal, ‘Operations Management’, The McGraw Hill Companies.
4. Chunawalla, Production and Operation Management, Himalaya Publishing House.
5. Faizer, Operations Management, Cengage Publications.

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BBA-308: ENTREPRENEURSHIP DEVELOPMENT

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks

Entrepreneurship- Meaning, Nature and Scope. Characteristics and Qualities of a Successful Entrepreneur. Relationship between Entrepreneurship Development and Economic Development. Entrepreneurship and Society. New Venture Development- Meaning and Stages. Sources of Financing Entrepreneurship. Evaluation of Role of Government and Non Government Agencies in Promoting Entrepreneurship in India. Entrepreneurial Strategies and Business Plan. Future of Entrepreneurship in India.

Suggested Readings

- Dollinger, MJ, Entrepreneurship- Strategies and Resources, Pearson Education.
- Slevenson, Roberts And Groasbeck, New Business Venture and Entrepreneurs.
- Desai,Vasant, Entrepreneurship Development, Himalaya Publishing House.
- Gupta, C.B. and Srinivasan, P., Entrepreneurship Development, Sultan Chand & Sons.
- Charanthimath, P.M., Entrepreneurship Development and Small Business Enterprise, Pearson Education.

BBA-309: BUSINESS LAW-II

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

BUSINESS LAW -II

Indian Companies Act 1956- Legal Aspects relating to Promotion and Establishment of Joint Stock Companies in India; Memorandum of Association; Article of Association; Prospectus, Shares and Share Capital; Allotment of Shares; Legal Rules regarding Membership and Borrowing Powers; Debentures -

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their issue, floating and fixed charges; Powers, Functions and Duties of Directors and Managing Directors; Prevention of Mismanagement and Oppression. Winding Up of company. Aspects relating to Company Meetings.

Securities Exchange Board of India Act 1992: Important Legal Provisions and implications.

SUGGESTED READINGS

- Singh Avtar: Company Law, Eastern Book Co., Lucknow.
- Kuchhal M.C.: Modern India Company Law: Shri Mahavir Books,
- Bagrial A.K: Company Law; Vikas Publishing House, New Delhi
- PPS Gogna, Business Law. New Age Publishing Company. New Delhi.
- Ashok Goel, Company Law, V K Publications.
- Avtar Singh, Mercantile Law, Eastern Book Company.

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BBA-310: LOGISTICS MANAGEMENT

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

Logistics management:

Logistics: Definition, Concept , Scope, Role & Importance , Coordination function of logistics, Total cost concept System approach to logistics, objectives of logistics management.

Customer Service: concept & practices

Supply chain management: Definition, Components, Role of logistics in SCM, Difference between Physical Distribution, logistics & SCM,

Order processing

Warehousing: Meaning , types & functions

Inventory Management: Definition, functions, cost and cost control

Transportation: types & transportation networks

Logistics packaging: packaging material & packaging cost

Role of technology in logistics, logistics performance measurement & control

Reference Books:

- Bower Sox D.J & Closs D.J , Logistical Management, TMG
- Kapoor Satish & Kansal P. Basics of Distribution Management , PHI
- Lambert D, Stock JR & Ellram LM, Strategic logistics management, TMG
- Panda TP, Sahadev, Sales & Distribtion Management, Oxford University Press
- Sahay B.S, Supply Chain Management: For Global Competitiveness, 1st Edition, Mc Millan
- Bhattacharyya S.K. , Logistics Management , S. Chand & Co. ltd
- Sople Vinod V, Logistics Management, Pearsons Education

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BBA-311: PRINCIPLES OF INSURANCE

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

Insurance-Concept, Nature, Classification-Life & Non-life, Functions, Importance and evolution of Insurance. Principles of Insurance.

Life Insurance –Concept; Public & Pvt. Sector companies in India – their products, schemes & plans; LIC Act 1956-An overview.

General Insurance – Concept, Types; Public & Pvt. Sector companies in India – their products, schemes & plans. IRDA Act 1999 – Organization, guidelines for life & Non-life insurance

Distribution channel in Insurance-Introduction, Individual Agents-Appointment, functions, code of conduct and remuneration; Eligibility, functions, code of conduct and remuneration of corporate agents and brokers,

Life Insurance, Documentation in Life insurance contract, Claims settlement in Life Insurance, Documentation in General insurance contract, Claims settlement in General Insurance.

Suggested Readings:

1. Karampal, B.S.Bodla,and Mahesh Garg, 'Insurance Management-Principles and Practice', Deep & Deep Publication,2006.
2. M.N.Mishra, 'Insurance-Principles and practice,' S. Chand and co. Ltd., 2003
3. Nalini Prave Tripathy, Prabir Pal, 'Insurance theory and practice' TMH 2007.
4. Neelam C. Gulati, 'Principles of Insurance Management', Excel Books, 2007

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BBA-312: INTRODUCTION TO FINANCIAL SERVICES

Max. Marks: 100
External Assessment: 90
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of six short answer questions. All questions shall carry equal marks.

Financial services

Meaning, importance of financial services, types of financial services, financial services and economic environment, players in financial services

Merchant banking, functions & activities, Issues management: managing new issues, Equity issues – Rights issues ,underwriting :functions, bankers to an issue, book building and reverse book building, debenture trustees, portfolio managers. An overview of role of SEBI .

Leasing and hire purchase, concepts and features, types of lease accounts Factoring & Forfaiting, Mutual funds - Structure of Mutual Funds- Types Mutual Funds – Advantages of mutual funds - Exchange Traded Funds, Credit rating. Stock broking, Consumer finance, Credit Cards.

Reference Books:

1. Financial Services—M.Y.Khan – Tata Mc Graw Hill
2. Merchant Banking Principles and Practice : H.R,Machiraju – New Age International
3. Financial Services – Gorden & Nataraju – HPH
4. Merchant banking and financial services – N. Mohan – Excel books
5. Indian Financial System – Pathak - Pearson Education
6. Corporate Finance- Principles and Problems- P V Kulkarni.

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BBA-106: Computer Fundamentals

Max. Marks: 60
External Assessment: 50
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of five short answer questions. All questions shall carry equal marks.

Computer Fundamentals: What is a computer? Components of a computer system. Classification of computers. Types of computers. Brief history of evolution of computers and generation of computers.

Computer hardware and software. Input/Output devices.

DOS: Elementary knowledge of DOS commands DIR, CLS, DATE, TIME, MD, CD, RD, RENAME, DEL, BACKUP, RESTORE, COPY, SCANDISK, CHKDSK.

Windows: Difference between windows and DOS. Basic Features – Date, Time, Time Zone, Display, Screen saver, Fonts, Mouse, and mouse pointers. Using accessories such as calculator, paint brush, CD player, etc.

Use of Windows Explorer for moving and copying files.

Introduction to MS-Office and its integrated nature.

MS-Word: Starting Word, new documents, entering text, changing text, aligning, underlining, and justifying text. Tables – creation, adding rows and columns, splitting, and combining cells, Borders. Saving, closing, and operating documents. Adding headers and footers.

Power Point (Presentation software): Basic concept of presentation software, standard toolbar, formatting toolbar, and drawing toolbars in PowerPoint and their use. Creating and opening a presentation. Use of slide sorter, adding header/footer. Use of animation features. Inserting pictures, resizing pictures. Inserting organization chart. Use of auto content wizard.

Suggested Readings:

1. Saxena : A first Course in Computers.
2. P.K. Sinha : Computer Fundamental
3. R.K. Taxali : PC Software for Windows

PRACTICAL

Max. Marks : 40 Marks

1. Windows:DeskTop,Icon, Screen Saver, File and Folders
2. MS-Word: Document Creation, Editing, Formatting, Table Handling, Word Art,Clip Art, Mail -Merge
3. PowerPoint: Slide Creation,Slide View`s, Slide Show,Custom Animation,Clip Art.

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BBA-205: Fundamentals of DBMS and ORACLE

Max. Marks: 60
External Assessment: 50
Internal Assessment: 10

Note: There will be eight questions in all. A candidate is required to attempt five questions including the question no. 1 which is compulsory. Question no. 1 will comprise of five short answer questions. All questions shall carry equal marks.

Basic Concepts – Traditional file oriented approach, Disadvantages of simple file system, Database approach, Advantages of Database approach, Database Management Systems(DBMS), Components of DBMS Environment, Advantages and Disadvantages of DBMS, DBMS Architecture, Data Independence, Data Models, Keys.

Computers: An introduction, use of computer in business, advantages and disadvantages, computerized system for inventory control, payroll order, banking and accounting.

SQL using ORACLE: Introduction to SQL, Components of SQL: DDL, DML & DCL, Data types in SQL, DDL Commands: Create, Alter, Drop, Truncate. Creating queries with DDL commands and implementing constraints. DML Commands: Insert, Delete, Update, Select, Select with Group by and Order by. Creating queries with DML commands. Operators: Set and Logical, SQL functions: Numeric functions, Scalar functions and Group functions

Report-Writing: Commands,advantages of Report writing..

Suggested Readings:

1. Fundamentals of Database Systems by Elmasri & Navathe (Pearson Education).
2. An Introduction to Database Systems by C. J. Date (Addison Wesley N. Delhi).
3. ORACEL 8I computer References by Tata Mc-Graw Hill.
4. SQL, PL/SQL- The programming language of Oracle by Ivan Bayross (BPB Publications).

PRACTICAL

Max. Marks: 40 Marks

SQL and PL/SQL using Oracle: Introduction to SQL PLUS environment, Executing and Editing SQL Commands, Creating and executing simple PL/SQL programs.

OR

Any RDBMS Package like MS-Access

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Kurukshetra University, Kurukshetra
Scheme of Syllabi and Examination of B. Pharmacy (Semester System)

I Semester

Subject Code	Subject	Teaching Load (Hours/Week)		Examination Hours		Maximum Marks for Theory		Maximum Marks for Practical	
		Theory	Practical	Theory	Practical	External	Internal	External	Internal
BPH 1.1.1	Pharmaceutics-I (Dispensing and Hospital Pharmacy)	4	3	3	3	80	20	80	20
BPH 1.1.2	Pharmaceutical Chemistry-I (Pharmaceutical Inorganic Chemistry)	4	3	3	3	80	20	80	20
BPH 1.1.3	Pharmaceutical Chemistry-II (Pharmaceutical Analysis-I)	4	3	3	3	80	20	80	20
BPH 1.1.4	Pharmaceutical Biology	3	3	3	3	80	20	80	20
BPH 1.1.5	Pharmacognosy-I	4	3	3	3	80	20	80	20

II Semester

Subject Code	Subject	Teaching Load (Hours/Week)		Examination Hours		Maximum Marks for Theory		Maximum Marks for Practical	
		Theory	Practical	Theory	Practical	External	Internal	External	Internal
BPH 1.2.1	Pharmaceutics-II (General Pharmacy)	4	3	3	3	80	20	80	20
BPH 1.2.2	Pharmaceutics-III (Forensic Pharmacy)	4	--	3	--	80	20	--	--
BPH 1.2.3	Pharmaceutical Chemistry-III (Pharmaceutical Organic Chemistry-I)	4	3	3	3	80	20	80	20
BPH 1.2.4	Pharmaceutical Chemistry-IV (Pharmaceutical Biochemistry)	4	3	3	3	80	20	80	20
BPH 1.2.5	Pharmacology –I (Anatomy, Physiology and Health Education-I)	4	3	3	3	80	20	80	20

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Kurukshetra University, Kurukshetra
Scheme of Syllabi and Examination of B. Pharmacy (Semester System)

III Semester

Subject Code	Subject	Teaching Load (Hours/Week)		Examination Hours		Maximum Marks for Theory		Maximum Marks for Practical	
		Theory	Practical	Theory	Practical	External	Internal	External	Internal
BPH 2.3.1	Pharmaceutics-IV (Pharmaceutical Engineering-I)	4	3	3	3	80	20	80	20
BPH 2.3.2	Pharmaceutical Chemistry-V (Pharmaceutical Organic Chemistry-II)	4	3	3	3	80	20	80	20
BPH 2.3.3	Pharmacology –II (Anatomy, Physiology and Health Education-II)	4	3	3	3	80	20	80	20
BPH 2.3.4	Pharmacognosy-II	4	3	3	3	80	20	80	20
BPH 2.3.5	Pharmaceutical Mathematics	4	--	3	--	80	20	--	--

IV Semester

Subject Code	Subject	Teaching Load (Hours/Week)		Examination Hours		Maximum Marks for Theory		Maximum Marks for Practical	
		Theory	Practical	Theory	Practical	External	Internal	External	Internal
BPH 2.4.1	Pharmaceutics-V (Pharmaceutical Engineering-II)	4	3	3	3	80	20	80	20
BPH 2.4.2	Pharmaceutical Chemistry-VI (Pharmaceutical Physical Chemistry)	4	3	3	3	80	20	80	20
BPH 2.4.3	Pharmacology –III (Pathophysiology of Common Diseases)	4	--	3	--	80	20	--	--
BPH 2.4.4	Pharmacognosy-III	4	3	3	3	80	20	80	20
BPH 2.4.5	Computer Science and Applications	3	3	3	3	80	20	80	20
BPH 2.4.6	Environmental Sciences	3	--	3	--	--	75	--	25*

*Project Report

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Kurukshetra University, Kurukshetra
Scheme of Syllabi and Examination of B. Pharmacy (Semester System)

V Semester

Subject Code	Subject	Teaching Load (Hours/Week)		Examination Hours		Maximum Marks for Theory		Maximum Marks for Practical	
		Theory	Practical	Theory	Practical	External	Internal	External	Internal
BPH 3.5.1	Pharmaceutics-VI (Physical Pharmacy)	4	3	3	3	80	20	80	20
BPH 3.5.2	Pharmaceutics-VII (Pharmaceutical Micro Biology)	3	3	3	3	80	20	80	20
BPH 3.5.3	Pharmaceutical Chemistry-VII (Pharmaceutical Analysis-II)	4	3	3	3	80	20	80	20
BPH 3.5.4	Pharmacology-IV	4	3	3	3	80	20	80	20
BPH 3.5.5	Pharmacognosy-IV	4	3	3	3	80	20	80	20

VI Semester

Subject Code	Subject	Teaching Load (Hours/Week)		Examination Hours		Maximum Marks for Theory		Maximum Marks for Practical	
		Theory	Practical	Theory	Practical	External	Internal	External	Internal
BPH 3.6.1	Pharmaceutics-VIII (Dosage Form Design)	4	3	3	3	80	20	80	20
BPH 3.6.2	Pharmaceutics-IX (Pharmaceutical Industrial Management)	4	--	3	--	80	20	--	--
BPH 3.6.3	Pharmaceutical Chemistry-VIII (Medicinal Chemistry-I)	4	3	3	3	80	20	80	20
BPH 3.6.4	Pharmacology-V	4	3	3	3	80	20	80	20
BPH 3.6.5	Pharmacognosy-V	4	3	3	3	80	20	80	20

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Kurukshetra University, Kurukshetra
Scheme of Syllabi and Examination of B. Pharmacy (Semester System)

VII Semester

Subject Code	Subject	Teaching Load (Hours/Week)		Examination Hours		Maximum Marks for Theory		Maximum Marks for Practical	
		Theory	Practical	Theory	Practical	External	Internal	External	Internal
BPH 4.7.1	Pharmaceutics-X (Biopharmaceutics and Pharmacokinetics)	4	3	3	3	80	20	80	20
BPH 4.7.2	Pharmaceutics-XI (Pharmaceutical Technology-I)	4	3	3	3	80	20	80	20
BPH 4.7.3	Pharmaceutical Chemistry-IX (Medicinal Chemistry-II)	4	3	3	3	80	20	80	20
BPH 4.7.4	Pharmacology-VI	4	3	3	3	80	20	80	20
BPH 4.7.5	Pharmaceutical Biotechnology	4	--	3	--	80	20	--	--

VIII Semester

Subject Code	Subject	Teaching Load (Hours/Week)		Examination Hours		Maximum Marks for Theory		Maximum Marks for Practical	
		Theory	Practical	Theory	Practical	External	Internal	External	Internal
BPH 4.8.1	Pharmaceutics-XII (Pharmaceutical Technology-II)	4	3	3	3	80	20	80	20
BPH 4.8.2	Pharmaceutical Chemistry-X (Medicinal Chemistry-III)	4	3	3	3	80	20	80	20
BPH 4.8.3	Pharmaceutical Chemistry-XI (Pharmaceutical Analysis-III)	4	3	3	3	80	20	80	20
BPH 4.8.4	Pharmacology-VII (Clinical Pharmacy and Drug Interactions)	4	--	3	--	80	20	--	--
BPH 4.8.5	Pharmacognosy-VI	4	3	3	3	80	20	80	20

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Kurukshetra University, Kurukshetra
Institute of Pharmaceutical Sciences
Syllabus of B. Pharm. (Semester System)
V Semester

BPH 3.5.1: Pharmaceutics-VI (Physical Pharmacy)

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. **Matter:** State and selected properties: State of matter, change in the state of matter, latent heats and vapour pressure, sublimation-critical point, eutectic mixtures, gases, aerosols-inhalers, relative humidity, liquid complexes, liquid crystals, glassy state, solid-crystalline and amorphous polymorphism. [8]
2. **Micromeretic and Powder Rheology:** Particle size and distribution, average particle size, number and weight distribution, particle number, method of determining particle volume, optical microscopy, sieving, sedimentation, measurement, particle shape, specific surface, methods of determining surface area, permeability, adsorption, derived properties of powders, porosity, packing arrangement, densities, bulkiness and flow properties. [8]
3. **Surface and Interfacial Phenomenon:** Liquid interface, surface and interfacial tensions, surface free energy measurement of surface and interfacial tensions, spreading coefficient, adsorption at liquid interfaces, surface active agents, HLB classification, solubilization, detergency, adsorption at solid interfaces, solid gas and solid-liquid interfaces, complex films, electric properties of interface. [8]
4. **Viscosity and Rheology:** Newtonian systems, laws of flow, kinematic viscosity, effect of temperature, non-Newtonian systems, pseudoplastic, dilatent, plastic, thixotropy, thixotropy in formulation, determination of viscosity, capillary, falling ball, rotational viscometers. [8]
5. **Dispersion system:**

a. Colloidal dispersions: Definition, types, properties of colloids, protective colloids, applications of colloid in pharmacy. [5]
b. Suspensions and Emulsions: Interfacial properties of suspended particles, settling in suspensions, theory of sedimentation, effect of Brownian movement, sedimentation of flocculated particles, sedimentation parameters, wetting of particles, controlled flocculation, flocculation in structured vehicles, rheological considerations, emulsions; types, theories and physical stability. [7]

6. **Complexation:** Classification of complexes, method of preparation and analysis, application. [4]
7. **Kinetics and drug stability:** general considerations & concepts, half life determination, influence of temperature, light, solvent, catalytic species and other factors, accelerated stability study, expiration dating. [7]
8. **Buffers:** Buffer equation and buffer capacity in general, buffer in pharmaceutical systems-preparation-stability, buffered isotonic solutions, measurement of tonicity calculations, methods of adjusting isotonicity. [5]

BPH 3.5.1: Practical Pharmaceutics-VI (Physical Pharmacy)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

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List of Books Recommended

Text Books

1. Cooper and Gunns' *" Tutorial Pharmacy"*, CBS Publishers, Delhi
2. A N Martin, *" Physical Pharmacy"*, K M Varghese& Co., Mumbai
3. *"Remington' Pharmaceutical Sciences"*, Mack Publishing Co., P.A.

Reference Books

4. E Shotton and K Ridgway, *"Physical Pharmaceutics"* Oxford University Press, London
5. Leon Lachman, H A Liberman and J L Kanig, *"The Theory and Practice of Industrial Pharmacy"*, Lea & Febiger, Philadelphia
6. H C Ansel, *" Introduction to Pharmaceutical Dosage Forms"*, K M Varghese& Co., Mumbai.
7. J T Carstensen, *" Drug Stability"*, Marcel Dekker Inc., NY

BPH 3.5.2: Pharmaceutics-VII (Pharmaceutical Microbiology)

Theory (Total hours: 45) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Introduction to the science of microbiology-ancient theories concerning the origin of life, contribution of great scientists to this science, with particular reference to the contributions of the following scientists: A.V. Leeuwenhoek, Louis Pasteur, Edward Jenner, Robert Koch, Alexander Fleming, Joseph Lister. [2]
2. Microscopy: Microscopes, their magnification, resolution, illumination and filters, working of different types of microscopes, micrometry. [4]
3. Classification of microbes and their taxonomy. [2]
4. Nutrition, cultivation isolation and identification of bacteria, fungi and viruses. [10]
5. Bacterial enzymes – classification, nomenclature, production by fermentation, immobilization techniques and applications of bacterial enzymes in general and detailed account of following bacterial enzymes: alpha amylase (diastase) and proteases. [4]
6. Disinfection, factors affecting disinfection, dynamics of disinfection, disinfectants and antiseptics and their evaluation. [5]
7. Sterilization, different methods, applications and evaluation of sterilization methods. [8]
8. Aseptic technique. [1]
9. Microbial standardisation of antibiotics (ampicillin, streptomycin), Vitamins (Vitamin B-12, Niacin) and calcium pentothenate. [3]
10. Fermentation: Types of media used; factors affecting, control of various parameters during fermentation. A detailed account of the industrial fermentation process for manufacture of penicillin, streptomycin, glutamic acid; Lysine, citric acid, Vit.B_{12}. [6]

BPH 3.5.2: Practical Pharmaceutics-VII (Pharmaceutical Microbiology)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. L. E. Casida, *"Industrial Microbiology"*, New Age International (P) Ltd. New
2. Pelczar, Chan and Krieg, *"Microbiology"*.

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Reference Books

3. R Y Stanier, Ingrham, *"General Microbiology"*, Wheelis and Painter.
4. Hugo and Russel, *"Pharmaceutical Microbiology*", Blackwell Scientific Publications, Oxford.
5. G Sykes, *"Disinfection and Sterilization"*.
6. Davis, Dulbetco, Eisen *"Microbiology*".
7. Benzamin Lewin, Gene V, *"Microbiology"*.
8. Prescott and Dunn, *"Industrial Microbiology*", Mcgraw Hill Book Company Inc.
9. Peppler, *"Microbiology Technology*", Vol.I & II

BPH 3.5.3: Pharmaceutical Chemistry-VII (Pharmaceutical Analysis-II)

Theory (Total hours: 60) Max. Marks: 80

Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. **Extraction**: procedure, separation of drug from excipients, liquid-liquid extraction, separation of mixtures by extraction, distribution law, successive extraction, the Craige method of multiple extraction, continuous counter-current extraction, effect of temperature, pH, inert solute, association, ion-pair formation, the emulsion problem in extraction. [7]
2. **Basic Principles of Chromatography**: Introduction and theory of underlying different types of chromatography techniques. Procedure, adsorbents & solvents used, detection methods and applications of: column chromatography, thin layer chromatography, paper chromatography, ion exchange chromatography. [7]
3. **Gas chromatography**: introduction, principles of gas chromatography, basic GLC apparatus, sample introduction, column, column efficiency, solid support, liquid phases, detectors and applications in pharmaceutical analysis. [8]
4. **HPLC**: introduction, instrumentation, liquid solid chromatography, liquid liquid chromatography, HPLC columns, solvent selection in HPLC, data handling in HPLC, applications of HPLC. [7]
5. **Elecrochemistry:** [18] The electric cell, electrode potential, half cells, types of half cells, sign convention, Nernst equation, the salt bridge, activity series, standard potential, standard hydrogen electrode, measuring the relative voltage of half cells, calculations of standard potential, reference electrodes, indicator electrodes.
   Potentiometry: theoretical considerations, ion-selective electrodes, measurement of potential, location of end point equipment, analytical application, direct measurement of a metal concentration, differential curve, determination of Ksp, pH measurement dead-stop titrations; pH meter, pH definition, relation to pH to potential, equipment and applications.
   Conductometry and conductometric titrations including high frequency titrations and their applications.
   Coulometric titrations, its principles and applications, controlled potential coulometry, cell design, instrumentation, advantages and limitations, and electrode selection.
   Polarography and its applications: theory of mass transport processes, current processes, current potential relationship, polarization, choice of electrodes, effect of oxygen, instrumentation, calculation of concentration, laboratory design and safety.
   Amperometric tirations and its applications.
6. **Radioimmunoassay and radioactivity**: basic nuclear properties, measurement of radioactivity, analytical applications of radioactivity, counting statistics and radiation safety, Basic principle, method and application of radioimmunoassay. [7]
7. **Miscellaneous method of analysis:** Diazotisation titration, Kjeldahl nitrogen determination, Karl fishcher titration, determination of alcohol in liquid galenicals, oxygen flask combustion, gasometry. [6]

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BPH 3.5.3: Practical Pharmaceutical Chemistry-VII (Pharmaceutical Analysis-II)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. *"Vogel's Textbook of Quantitative Inorganic Analysis*", ELBS/ Longman, London.
2. A. H. Beckett and J. B. Stenlake, *"Practical Pharmaceutical Chemistry, Vol. I and II"*, The Athlon Press of the University of London.

Reference Books

3. I. M. Kolthoff and V. A. Stenger, *"Volumetric Analysis, Vol. II Titration Methods"*, Interscience Publishers, Inc., New York.
4. K. A. Conners, *"A Textbook of Pharmaceutical Analysis*", Wiley Interscience, New York.
5. *"Jenkin's Quantitative Pharmaceutical Chemistry",* Mcgraw Hill Book Company, New York.
6. Lunn G., *"HPLC- Method for Pharmaceutical Analysis*"
7. Lunn G. *"Handbook of Derivatisation Reaction for HPLC"*

BPH 3.5.4: Pharmacology-IV

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. **General Pharmacology:** Introduction to Pharmacology, Sources of drugs, Dosage forms and routes of administration, mechanism of action, Combined effect of drugs, Factors modifying Drug action, tolerance and dependence. [6]
2. **Pharmacokinetics:** Absorption, Distribution, Metabolism and Execration of drugs, Principles of Basic and Clinical pharmacokinetics, Adverse Drug Reactions and treatment of poisoning, ADME
   drug interactions, Therapeutics index -LD 50 & ED50, Bioassay of Drugs and Biological Standardization, Discovery and development of new drugs. [10]
3. **Pharmacology of Peripheral Nervous System:** [12]
   a) Neurohumoral transmission (autonomic and Somatic)
   b) Parasympathomimetics, Parasympatholytics, Sympathomimetics, Adrenergic Receptor and neuron blocking agents, Ganglionic, stimulants and blocking agents.
   c) Neuromuscular blocking Agents.
   d) Local anesthetic Agents.
4. **Pharmacology of Central Nervous System:** [24]
   a) Neurohumoral transmission in the C.N.S.
   b) General Anesthetics.
   c) Alcohols and disulfiram.
   d) Sedatives, hypnotics and centrally acting muscle relaxants.
   f) Anti-epileptics drugs.
   g) Anti-Parkinsonian Drugs.
   h) Analgesics, Antipyretics, Anti-inflammatory and Anti-gout drugs.
   i) Narcotic analgesics and antagonists.
   j) C.N.S. stimulants
   k) Drug Addiction and Drug Abuse.

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5. Drugs acting on urinary system: [8]

a) Fluid and electrolyte balance

b) Diuretics

BPH 3.5.4: Practical Pharmacology-IV

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory including the following:

1. Introduction of Experimental Pharmacology:
2. Use of computer simulated CDs or Video cassetes for pharmacology practical where possible.
3. Preparation of different solutions for experiments.
4. Drug dilutions, use of molar and w/v solutions in experimental Pharmacology.
5. Common laboratory animals and anaesthetics used in animal studies.
6. Commonly used instruments in experimental pharmacology.
7. Some common and standard techniques: Bleeding and intravenous injection, intragastric administration. Procedures for rendering animals unconscious- stunning of rodents, pithing of frogs, chemical euthanasia.
8. Experiments of intact preparations: Study of different routes of administration of drugs in mice/rats. To study the effect of hepatic microsomal enzyme inhibitors and induction on the pentobarbitone sleeping time in mice.
9. Experiments on Central Nervous system: Recording of spontaneous motor activity, stereotypy, analgesia, anticonvulsant activity, anti-inflammatory activity, and muscle relaxant activity of drugs using simple experiments.
10. Effects of autonomic drugs on rabbit's eye.

List of Books Recommended

Practical Pharmacology

1. Ghosh, M.N. Fundamentals of Experimental Pharmacology . Scientific Book Agency, Kolkatta.
2. Tripathi Pharmacological Experiments in Intact & Isolated Preparations.
3. Grover J.K., Experiments in Pharmacy & Pharmacology, CBS Publishers, New Delhi.
4. Kulkarni S.K., Hand Book of Experimental Pharmacology, Vallabh Prakashan, Delhi.

Suggested Readings

1. Barar, F.S.K. Textbook of Pharmacology. Interprint, New Delhi.
2. Crossland, J. and Thomson, J.H. Essentials of Pharmacology. Harper & Row Publishers, New York.
3. Goodman and Gilman's The Pharmacological Basis of Therapeutics. Editors J.G. Hardman etal. Pergamon Press.
4. Mycek, M.J., Gertner, S.B. and Perper, M.M. Pharmacology. Lipponcott's Illustrated Reviews.
5. Paul, L. Principles of Pharmacology. Chapman & Hall.
6. Rang, M.P., Dale M.M. and Riter, J.M. Pharmacology. Churchill Livingstone.
7. Theoharides, T.C. Pharmacology. Little Brown & Co.
8. Lewi's Pharmacology
9. Katzung, B.G. Basic & Clinical Pharmacology, Prentice Hall, International.
10. Laurence, DR & Bannet PN; Clinical Pharmacology, Churchill Livingstone.
11. Satoskar & Bhandarkar; Pharmacology & Pharmacotherapeutics, Popular Prakashan Pvt.Ltd., Bombay.
12. Craig, C.R. and Stitzel, R.R., Modern Pharmacology, Little Brown and Co., 1994.
13. Sheffield Bioscience Programms, U.K., ISBN,1-874758-02-6
14. Harrisons Principles of Internal Medicine.

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BPH 3.5.5: Pharmacognosy-IV

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. An introduction to traditional systems of medicine: [15]
   a) Ayurvedic system of medicine
   b) Siddha system of medicine
   c) Unani system of medicine
   d) Homeopathic system of medicine
   e) Chinese system of medicine
2. Introduction and applications of Aromatherapy [3]
3. Introduction to primary metabolites, secondary metabolites, biogenesis and biosynthesis in plant [2]
4. General technique for the elucidation of biosynthetic pathways [5]
5. An introduction to biogenesis of secondary Metabolites of pharmaceutical importance: Shikimic acid pathway, acetate mevalonate pathway, acetate melonate pathway, Amino acid pathway. [10]
6. Chemistry and biogenesis of medicinally important terpenoids: Citral, Menthol, carvone, Limonene, α-terpineol, camphor, Zingiberine, phytol, squalene [20]
7. Natural allergens and photosensitizing agents. [5]

BPH 3.5.5: Practical Pharmacognosy-IV

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory portion and including the following:
1. Laboratory experiments on isolation, separation, purification of various groups of chemical constituents of pharmaceutical importance.
2. Exercises on paper and thin layer chromatographic evaluation of herbal drug constituents.

List of Books Recommended

Text Books

1. Trease, G. E. and Evans, W. C., *"Text Book of Pharmacognosy"*, Bailliere Tindall, Eastbourne, U. K.
2. Tyler, V. C., Brady, L. R. and Robers, J.E., *"Text Book of Pharmacognosy"*, 8th Ed. Lea and Febiger, Philadelphia.
3. Rangari V.D., " Pharmacognosy and Phytochemistry" Part-I and II, Career Publication, Nashik.
4. Kokate C. K., Purohit A. P. and Kokhale S.B., "Text Book of Pharmacognosy", Nirali Publication, Pune.
5. I.L. Finar, Organic Chemistry, Vol.II, The English Language Books Society and Longman Group Limited.
6. O. P. Aggarwal, Chemistry of organic Natural Products Vol. I & II
7. G. Chatwal, Chemistry of organic Natural Products Vol. I & II
8. Clarke, E. C. G., *"Isolation and Identification of Drugs"*, The Pharmaceutical Press, London.
9. De Mayo, P., *"The Chemistry of Natural Products"*, Interscience, New York.
10. Harborne J. B., *"Phytochemical Methods"*, Chapman and Hall, International Edition, London..
11. Pridham, J. B. and Swain, T., *"Biosynthetic Pathways in Higher Plants"*, Academic Press, New York.
12. Rosenthaler, L., *"The Chemical Investigations of Plants"*, G. Bell and Sons limited., London
13. Paul m Dewick, " Medicinal Natural Products", John Wiley & Sons, NY

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Reference Books

14. Manitto, P., *"The Biosynthesis of Natural products"*, Ellis Horwood, Chichester
15. Peach, K., and Tracey, M. V. *"Modern methods of Plants analysis",* Narosa Publishing House, New Delhi

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Kurukshetra University, Kurukshetra
Institute of Pharmaceutical Sciences
Syllabus of B. Pharm. (Semester System)
VI Semester

BPH 3.6.1: Pharmaceutics-VIII (Dosage Form Design)

Theory (Total hours: 60) Max. Marks: 80

Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Preformulation studies: [10]
   a) Study of physical properties of drug like physical form, particle size, shape, density, wetting dielectric constant, solubility, dissolution and organoleptic properties and their effect on formulation, stability and bioavailability.
   b) Study of chemical properties of drug like hydrolysis, oxidation, reduction, recemization, polymerization etc., and their influence on formulation and stability of products.
   c) Study of prodrugs in solving problems related to stability, bioavailability and elegancy of formulation.
2. Design, development and process validation methods for pharmaceuticals operations involved in the production of pharmaceutical products with special reference to liquid dosage forms. [5]
3. Stabilization and stability testing protocol for various pharmaceutical products. [4]
4. GMP, Quality assurance, Quality audit. [5]
5. Radiopharmaceuticals: fundamentals of radiopharmacy, therapeutic applications of isotopes, diagnostic applications of isotopes, use of radioisotopes in basic research, product development, product production, process control and quality control. [6]
6. Liquid formulations, theory of disperse systems, formulation and industrial production of liquid and semi-solid formulation like suspension, syrup, emulsions and ointments. [5]
7. Skin: structure and physiology, physiology of sweating, physiology of skin secretions formulations, preparations for skin of face and hands, formulation, preparation and evaluation of cleansing creams, cold creams, cleansing lotions, foundation creams, moisturising creams, skin tonics, handy and body lotion. [10]
8. Hairs, structure and functions, formulation, preparation and evaluation of shampoos, dandruff preparation, hair creams, and fixers, hair colorants, hair remover (depilatories), shaving sticks and after shave lotion. [5]
9. Formulation, preparation and evaluation of lipsticks. [5]
10. Formulation, preparation and evaluation of other cosmetics like nail lacquers, anti-perspirants and deodorants, tooth powders and tooth paste. [5]

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BPH 3.6.1: Practical Pharmaceutics-VIII (Dosage Form Design)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. H C Ansel, *" Introduction to Pharmaceutical Dosage Forms"*, K M Varghese& Co., Mumbai.
2. Leon Lachman, H A Liberman and J L Kanig, *"The Theory and Practice of Industrial Pharmacy"*, Lea & Febiger, Philadelphia

Reference Books

3. *"Cosmetic Science and Technology"*, John Wiley & Sons, NY
4. J s Jellinek, *"Formul;ation and Functions of cosmetics"*, John Wiley & Sons, NY
5. S G Thompson, *" Modern Cosmetics"*, Universal Publishing Corporation, Mumbai
6. H S Bean, A H Beckett and J E Carless, *"Advance in Pharmaceutical Sciences"*, Academic Press, London
7. K A Connores, G L Amiden and V J Stella, *" Chemical stability of Pharmaceuticals"*.
8. A Owunwonne, *"Hand Book of Radiopharmaceuticals"*, Narosa Publishing House, New Delhi.

BPH 3.6.2: Pharmaceutics-IX (Pharmaceutical Industrial Management)

Theory (Total hours: 60) Max. Marks: 80

Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Pre-requisites: (Basic Information Services) [10] Concept of Management, Administrative Management (Planning, Organising, Staffing, Directing and contrlloing). Operative Management (Personnel, Materials, Production, Financial, Marketing, Time/Space, Margin/Morale).Principles of Management (Co-ordination, Communication, Motivation, Decision-making, Leadership, Innovation, Creativity, Delegation of Authority/Responsibility, Record Keeping). Identification of key points to give maximum thrust for development and perfection.
2. Accountancy: [7] Principles of Accountancy, ledger posting and book entries, columns of a cash book, preparation of trial balance, profits and loss account, balance sheet.
3. Economics: [6] Principles of economics with special reference to the laws of demand and supply, demand schedule, demand curves, labour welfare, general principles of incurance and inland and foreign trade, procedure of exporting and importing goods.
4. Pharmaceutical Marketing: [7] Functions Buying, selling, transportation, stroage, finance, feedback, information, channels of distribution, wholesale, retail, departmental store, multiple shop and mail order business.
5. Salesmanship: [6] Principles of sales promotion, advertising, ethics of sales, merchandising, literature, detailing.
6. Market Research: [6] Recruitment, training, evaluation, compensation to the pharmacist.
7. Material management: [6] A brief exposure of the basic principles of material management, purchase, store and inventory management.
8. Production Management: [6] A brief exposure of the different aspects of production management (visible and invisible inputs, methodology of activities, performance evaluation, technique, process-flow, process know-how.
9. Personnel Management: [6] Eligibility, efficiency, evaluation, recruitment methodology, service conditions, termination, performance evaluation etc.

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List of Books Recommended

Text Books

1. G W Plossl and O W Wight, *"Production and Inventory Control, Principles and Techniques"*, Prentice Hall of India Pvt. Ltd., New Delhi.
2. Banerjee, "*Principle and Practice of Management*", Oxford and I B H Publishing Company. New Delhi..
3. Rustam S Pavel, "*Salesmanship and Publicity*", Progressive Corporation Pvt. Ltd. Mumabai.

Reference Books

4. S P Ganguly, "*Principles and Practice of Management*", Chatterjee Publishing Concern, Calcutta
5. K S menon, *"Purchasing and Inventory Control"*, Wheeler Publishing, Allahabad.
6. C B Gupta, "*Principles and Practice of Management*", National publishing House, New Delhi

BPH 3.6.3: Pharmaceutical Chemistry-VIII (Medicinal Chemistry-I)

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Basic Principles of Medicinal Chemistry: [15]
   Physio-chemical aspects of drug action, stereochemical aspects of drug action (Optical, geometric and bioisoterism of drug molecules with biological action), conformational isomerism, solubility and partition coefficient, chemical bonding.
   Drug-receptor interactions, receptor concept, receptor- effector theories, types of receptor and their action including transduction mechanism and G proteins.
   Principles of drug design (Theoretical aspects): introduction and basic techniques of traditional analog (QSAR), computer aided drug designing (CADD), molecular modeling and combinatorial chemistry.
2. Synthetic procedures of selected drugs, mode of action, uses, structure activity relationship including physiochemical properties of the following classes of drugs. [35]
   1. Drugs acting at Synaptic and neuro-effector junction sites: cholinergics and anticholinergics, antispasmodics, antiulcer drugs, ganglionic stimulants, neuromuscular blocking agents, sympathomimetic agents including biosynthesis of adrenergic neurotransmitter, adrenergic drugs and adrenoceptor blockers.
   2. Autocoids: Antihistamines, Ecosanoids, Anti-inflammatory agents (nonsteroidal), analgesic and antipyretics.
   3. Drugs affecting Uterine Motility: Oxytocics including oxytocin, ergot alkaloids and prostaglandins.

BPH 3.6.3: Practical Pharmaceutical Chemistry-VIII (Medicinal Chemistry-I)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. Wilson and Gisvold's *"Textbook of Organic Medicinal and Pharmaceutical Chemistry"*, J. Lippincot Co., Philadelphia.
2. W. O. Foye, "*Principles of Medicinal Chemistry*", Lea and Febiger, Philadelphia.
3. *"Name reactions and Organic Drug Synthesis"* by Parveen Arora, Ahuja Publishing House, Delhi.

Reference Books

4. C. Hansch, *"Comprehensive Medicinal Chemistry"*, Pregman Press Oxford.

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5. Y. C. Martin, *"Quantitative Drug Design"*, Marcel Dekker, Inc. New York.
6. Exploring QSAR
   Vol. I- *"Fundamentals and Applications in Chemistry and Biology* by C. Hansch and A. Leo.
   Vol.II- *"Hydrophobic,Electronic and Steric Constants"* by C. Hansch, A. Leo and D. Hockman, ACS Books Catalog.
7. M. E. Wolff, Ed. *"Burger's Medicinal Chemistry"*, John Wiley & Sons, New York.
8. T. Nogardy, *"Medicinal Chemistry – A Biochemical Approach"*, Oxford University Press, New York, Oxford.
9. Popst and Perrum, *"Computer Aided Drug Design"*, Academic Press, New York

BPH 3.6.4: Pharmacology-V

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Bioassay: [8]
Definition, merits and demerits of bioassay, biological standardisation, threshold dose, interpolation, matching, bracketing, three point, four point and other assays, bioassay of acetylcholine, hydroxytryptamine, adrenaline, noradrenaline, sedative agents, oxytocin, digitalis, different hormones, anaesthetics, local anaesthetics, etc.

2. Pharmacology of Cardiovascular System: [20]
a) Digitalis and cardiac glycosides
b) Antihypertensive drugs
c) Antianginal and Vasodilator drugs, including calcium channel blockers and beta adrenergic antagonists
d) Antiarrhythmic drugs
e) Antihyperlipedemic drugs
f) Drugs used in the therapy of shock

3. Drugs Acting on the Hemopoetic System: [10]
a) Hematinics
b) Anticoagulants, Vitamin K and hemostatic agents.
c) Fibrinolytic and anti-platelet drugs
d) Blood and plasma volume expanders.

4. Autocoids: [12]
a) Histamine, 5- HT and their antagonists.
b) Prostaglandins, thromboxanes and leukotrienes.
c) Pentagastrin , Cholecystokinin, Angiotensin, Bradykinin and Substance P.

5. Drugs Acting on the Respiratory System: [10]
a) Anti-asthmatic drugs including bronchodilators
b) Anti-tussives and expectorants
c) Respiratory stimulants

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BPH 3.6.4: Practical Pharmacology-V

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory including the following:

1. Introduction of Experimental Pharmacology:
2. Use of computer simulated CDs or Video cassetes for pharmacology practical where possible.
3. To record the concentration response curve (CRC) of acetylcholine using rectus abdominis muscle preparation of frog.
4. To study the effects of physostigmine and d-tubocurarine on the CRC of acetylcholine using rectus abdominis muscle preparation of frog.
5. To record the CRC of 5- HT on rat fundus preparation.
6. To record the CRC of histamine on guinea pig ileum preparation.
7. To record the CRC of noradrenaline on rat anococcygeus muscle preparation.
8. To record the CRC of oxytocin using rat uterus preparation.
9. Effect of various agonists and antagonists and their characterization using Isolated preparations like frog's rectus abdominus muscle and isolated ileum preparations of rat, guinea pig and rabbit.
10. To study the ionotropic and chronotropic effects of drugs on isolated Rat/Rabbit/frog heart.
11. To study the effects of drugs on normal and hypodynamic Rat/Rabbit/frog heart.
12. Blood Pressure of anaesthetized Dog/Cat/Rat: To demonstrate the effects of various drugs on the B.P. and respiration including the Vasomotor Reversal of Dale and nicotinic action of acetylcholine.

List of Books Recommended

Practical Pharmacology

1. Ghosh, M.N. Fundamentals of Experimental Pharmacology . Scientific Book Agency, Kolkatta.
2. Tripathi Pharmacological Experiments in Intact & Isolated Preparations.
3. Grover J.K., Experiments in Pharmacy & Pharmacology, CBS Publishers, New Delhi.
4. Kulkarni S.K., Hand Book of Experimental Pharmacology, Vallabh Prakashan, Delhi.

Suggested Readings

1. Barar, F.S.K. Textbook of Pharmacology. Interprint, New Delhi.
2. Crossland, J. and Thomson, J.H. Essentials of Pharmacology. Harper & Row Publishers, New York.
3. Goodman and Gilman's The Pharmacological Basis of Therapeutics. Editors J.G. Hardman etal. Pergamon Press.
4. Mycek, M.J., Gertner, S.B. and Perper, M.M. Pharmacology. Lipponcott's Illustrated Reviews.
5. Paul, L. Principles of Pharmacology. Chapman & Hall.
6. Rang, M.P., Dale M.M. and Riter, J.M. Pharmacology. Churchill Livingstone.
7. Theoharides, T.C. Pharmacology. Little Brown & Co.
8. Lewi's Pharmacology
9. Katzung, B.G. Basic & Clinical Pharmacology, Prentice Hall, International.
10. Laurence, DR & Bannet PN; Clinical Pharmacology, Churchill Livingstone.
11. Satoskar & Bhandarkar; Pharmacology & Pharmacotherapeutics, Popular Prakashan Pvt.Ltd., Bombay.
12. Craig, C.R. and Stitzel, R.R., Modern Pharmacology, Little Brown and Co., 1994.
13. Sheffield Bioscience Programms, U.K., ISBN,1-874758-02-6
14. Harrisons Principles of Internal Medicine.

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BPH 3.6.5: Pharmacognosy-V

Theory (Total hours: 60) Max. Marks: 80

Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Alkaloids: chemistry and biogenesis of atropine, quinine, reserpine, morphine, papaverine, ephedrine, ergotamine and piperine. [20]
2. Chemistry and biosynthesis of α-Carotene, β-carotene and vitamin A [8]
3. Introduction and chemistry of xanthophylls of medicinal importance. [3]
4. Chemistry, classification and uses of medicinally important irridoids. [5]
5. Chemistry of penicillins, streptomycin and tetracyclines. [9]
6. Spectral approaches to natural products: Applications of UV, IR, NMR spectroscopy and Mass spectrometry in natural products [10]
7. Marine pharmacognosy, novel medicinal agents from marine sources. [5]

BPH 3.6.5: Practical Pharmacognosy-V

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory portion and including the following:

1. Laboratory experiments on isolation, separation, purification of various groups of chemical constituents of pharmaceutical importance.
2. Exercises on paper and thin layer chromatographic evaluation of herbal drug constituents.

List of Books Recommended

Text Books

1. I.L. Finar, Organic Chemistry, Vol.II, The English Language Books Society and Longman Group Limited.
2. O. P. Aggarwal, Chemistry of organic Natural Products Vol. I & II
3. G. Chatwal, Chemistry of organic Natural Products Vol. I & II
4. Trease, G. E. and Evans, W. C., *"Text Book of Pharmacognosy"*, Bailliere Tindall, Eastbourne, U. K.
5. Tyler, V. C., Brady, L. R. and Robers, J.E., *"Text Book of Pharmacognosy"*, 8th Ed. Lea and Febiger, Philadelphia.
6. Rangari V.D., " Pharmacognosy and Phytochemistry" Part-I and II, Career Publication, Nashik.
7. Clarke, E. C. G., *"Isolation and Identification of Drugs"*, The Pharmaceutical Press, London.
8. De Mayo, P., *"The Chemistry of Natural Products"*, Interscience, New York.
9. Harborne J. B., *"Phytochemical Methods"*, Chapman and Hall, International Edition, London..
10. Pridham, J. B. and Swain, T., *"Biosynthetic Pathways in Higher Plants",* Academic Press, New York.
11. Rosenthaler, L., *"The Chemical Investigations of Plants",* G. Bell and Sons limited., London
12. Paul m Dewick, " Medicinal Natural Products", John Wiley & Sons, NY

Reference Books

1. Manitto, P., "*The Biosynthesis of Natural products"*, Ellis Horwood, Chichester
2. Peach, K., and Tracey, M. V. "*Modern methods of Plants analysis"*, Narosa Publishing House, New Delhi

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Kurukshetra University, Kurukshetra
Institute of Pharmaceutical Sciences
Syllabus of B. Pharm. (Semester System)
VII Semester

BPH 4.7.1: Pharmaceutics-X (Biopharmaceutics and Pharmacokinetics)

Theory (Total hours: 60) Max. Marks: 80

Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Introduction to Biopharmaceutics and Pharmacokinetics and their role in formulation development and clinical setting. [3]
2. Biopharmaceutics: [12]
   - 2.1 Passage of drug across biological barrier (passive diffusion, active transport, facilitated diffusion and pinocytosis).
   - 2.2 Factors influencing absorption-physiochemical, phsiological and pharmaceutical.
   - 2.3 Drug distribution in the body, plasma protein binding.
3. Pharmacokinetics [25]
   - 3.1 Significance of plasma drug concentration measurement.
   - 3.2 Compartmental model: definition and scope.
   - 3.3 Pharmacokinetics of drug absorption-zero order and first order absorption rate constant using wagner-Nelson and Loo-piegelman method.
   - 3.4 Volume of distribution and distribution coefficient.
   - 3.5 Compartment kinetics-one compartment and two compartment models. Determination of pharmacokinetics parameters from plasma and urine data after drug administration by intravascular and oral route.
   - 3.6 Curve fitting (method of residuals), regression procedures.
   - 3.7 Clearance concept, mechanism of renal clearance, clearance ratio, determination of renal clearance.
   - 3.8 Hepatic elimination of drugs, first pass effect, extraction ratio, hepatic clearance, billiary excretion, enterohepatic circulation.
   - 3.9 Non-linear pharmacokinetics with special reference to one compartemtn model after I.V. drug administration, Michales Menten equation, determination of non-linearity (saturation mechanism).
4. Clinical pharmacokinetics; [12]
   - 4.1 Definition and scope.
   - 4.2 Dosage adjustment in patients with and without rtenal and hepatic failure.
   - 4.3 Dosage regimen adjustment for repeated therapy.
   - 4.4 Intrduction to Pharmacokinetics drug interactions and its significance in combination therapy.
5. Bioavailability and bioequivalence: [8]
   - 5.1 Measures of bioavailability, C_{max}, t_{max} and Area under Curve(AUC).
   - 5.2 Design of single dose bio-equivalence study and relevant ststistics.
   - 5.3 Overview of regulatory requirements for conduction of bio-equivalence study.

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BPH 4.7.1: Practical Pharmaceutics-X (Biopharmaceutics and Pharmacokinetics)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. L Shargel and B C Andrew, *"Applied Biopharmaceutics and Pharmacokinetics"*, Prentice Hall International, USA.
2. Brahmankar, CBS Publishers

Reference Books

3. J G Wagner, "*Fundamental of Clinical Pharmacokinetics*", Drug Intteligence P ublications, Hamilton.
4. R E Notari, "*Biopharmaceutics and Pharmacokinetics- an Intoduction*", Marcel Dekker Inc, NY
5. Sarfaraz Niazi, "*Textbook of Biopharmaceutics and Clinical Pharmacokinetics*", Appelton – Century Crofts, New York.
6. M Gibaldi and D Parrier, "*Pharmacokinetics*", Marcel Dekker Inc, NY
7. J G Wagner, "*Pharmacokinetics for the Pharmaceutical Scientist*", Technomic Publishing A G Basel, Switzerland.
8. Milo Gibaldi, "*Biopharmaceutics and Clinical Pharmacokinetics"*, Lea and Fibiger, Philadelphia.

BPH 4.7.2: Pharmaceutics-XI (Pharmaceutical Technology-I)

Theory (Total hours: 60) Max. Marks: 80

Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Tablets: [27] types of tablets, formulation of tablets, various granulation techniques including slugging, chilsonator, extructor, Day-Nauta granulator, double cone granulator, spray granulator. Tabletting machinery for production of single layer, multilayer and compression coated tablets. Physics of tablet making: strain gauge, measurement of applied and transmitted pressure, distribution of forces during compression, effect of applied pressure on relative volume and factors affecting strength of tablet. Tablet coating: sugar coating, film coating and compression coating, coating processes i.e. air suspension coating and pan coating (using conventional, rear vented and perforated pans). Quality control of tablets, Process validation.
2. Capsules: advantages, applications, formulation, large-scale production and quality control of hard and soft capsules. [6]
3. Aerosols: definitions, advantages and applications, liquefied-gas system, compressed gas system, propellants, containers, valves, cold-filling process, pressure filling process and quality control of aerosols. [7]
4. Introduction to Packaging Technology: Definition, life history of a package, qualities of the package, purpose of packaging, choosing the form of package, hazards encountered by the package, various types of inner and outer packages, selection of a suitable package and child resistant package. [4]
5. Packaging materials: Detailed study with regard to composition packaging characteristics, advantages, and limitations of various packaging materials with special emphasis on glass, plastics, metals and rubber. Evaluation of packaging materials. Production of oriented and non-oriented films and laminates.[7]
6. Strip Packing: Significance of Strip Packing, advantages and limitation of Strip Packing, Strip Packing machinery, films employed in Strip Packing (including composites and laminates) and evaluation of films and strips packs. [4]

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7. Blister Packaging: Blister packing materials, significance of Blister packing, advantages and limitation of blister packing, blister packing machinery, various types of blister packages, evaluation of blister package. [5]

BPH 4.7.2: Practical Pharmaceutics-XI (Pharmaceutical Technology-I)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. *"Remington' Pharmaceutical Sciences"*, Mack Publishing Co., P.A.
2. Leon Lachman, H A Liberman and J L Kanig, *"The Theory and Practice of Industrial Pharmacy*, Lea & Febiger, Philadelphia
3. *"Bentley's Textbook of Pharmaceutics"*, ELBS Bacilliere Tindall
4. Cooper and Guunn's,*"Dispensing for Pharmaceutical Students"*, CBS Publishers, Delhi.
5. Cooper and Gunn's *"Tutorial Pharmacy"*, CBS Publishers, Delhi.
6. T C KacChesney, *"Packaging of Cosmetics and Toiletories*", Newness- Butterworth, London

Reference Books

7. *" Modern Pharmaceutics"*,ed G S Banker and Rhodes, Marcel dekker Inc., NY
8. H A Liberman, L Lachman and J B Schwartz,*" Pharmaceutical Dosage Forms: Tablets"*, Vol. 1, Marcel Dekker Inc, NY
9. AI Brody & K S Marsh, *"The Wiley Encyclopedia of Packaging Technology", John* Wiley & Sons, New York

BPH 4.7.3: Pharmaceutical Chemistry-IX (Medicinal Chemistry-II)

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Drug metabolism: [7]
   Functionlization reactions (Phase I): Oxidation, reduction and hydrolytic reactions.
   Conjugation reactions: Glucuronic acid conjugation, sulphate conjugation, conjugation with amino acids, glutathione conjugation, acetylation, methylation.
2. Chemotherapeutic agents: introduction to chemotherapy, concepts of resistance, combination therapy. Antibacterials including antimetabolites, Immunomodulators, Antiviral agents including anti- HIV agents. [15]
3. Synthetic procedure of selected drugs, mode of action, uses, and structure activity relationship including physico-chemical properties of the following classes of drugs: [38]
   a. Drugs acting on Central nervous System: General anesthetics, Local anesthetics, Hypnotics and sedatives, opioid analgesics, antitussives, anticonvulsants, antiparkinsonian drugs, CNS stimulants, psychopharmacological agents (neuroleptics, antidepressants, anxiolytics).
   b. Steroids and related drugs: Steroidal nomenclature and stereochemistry; androgens and anabolic agents; oestrogens and parogestational agents; adrenocorticoids.
   c. Diuretics and Antidiuretics.
   d. Vitamins: Classification, chemistry of thiamine, pyridoxine, folic acid, ascorbic acid and vitamin A.

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BPH 4.7.3: Practical Pharmaceutical Chemistry-IX (Medicinal Chemistry-II)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. Wilson and Gisvold's *"Textbook of Organic Medicinal and Pharmaceutical Chemistry"*, J. Lippincot Co., Philadelphia.
2. W. O. Foye, *"Principles of Medicinal Chemistry"*, Lea and Febiger, Philadelphia.
3. *"Name reactions and Organic Drug Synthesis"* by Parveen Arora, Ahuja Publishing House, Delhi.

Reference Books

4. C. Hansch, *"Comprehensive Medicinal Chemistry"*, Pregman Press Oxford.
5. M. E. Wolff, Ed. *"Burger's Medicinal Chemistry"*, John Wiley & Sons, New York.
6. T. Nogardy, *"Medicinal Chemistry – A Biochemical Approach"*, Oxford University Press, New York, Oxford.

BPH 4.7.4: Pharmacology-VI

Theory (Total hours: 60) Max. Marks: 80

Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Pharmacology of Endocrine System: [20]

a) Hypothalamic and pituitary hormones
b) Thyroid hormones and anti-thyroid drugs, parathormone, calcitonin and Vitamin D.
c) Insulin, oral hypoglycaemic agents & glucagon
d) ACTH and corticosteroids
e) Androgens and anabolic steroids
f) Estrogens, progesterone and oral contraceptives.
g) Drugs acting on the uterus.

2. Principles of Toxicology: [10]

a) Definition of poison, general principles of treatment of poisoning with particular reference to barbiturates, opioids, organophosphorous and atropine poisoning.
b) Heavy metals and heavy metal antagonists.

3. Chemotherapy: [20]

a) General Principles of Chemotherapy, Sulfonamides and cotrimoxazole
c) Antibiotics-Penicillins, Cephalosporins, Chloramphenicol, Etythromycin, Quinolones and Miscellaneous Antibiotics.
d) Chemotherapy of tuberculosis, leprosy, fungal diseases, viral diseases, urinary tract infections and sexually transmitted diseases.
e) Chemotherapy of malignancy and Immunosuppressive Agents

4. Drugs Acting on the Gastrointestinal Tract: [10]

a) Antacids, Anti Secretory and Anti-ulcer drugs
b) Laxatives and anti-diarrhoeal drugs.
c) Appetite Stimulants and Suppressants
d) Emetics and anti-emetics
e) Miscellaneous-Carminatives, demulcents, protectives, adsorbents, astringents, digestants, enzymes and mucolytics.

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BPH 4.7.4: Practical Pharmacology-VI

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory including the following:

1. Introduction of Experimental Pharmacology.
1. Use of computer simulated CDs or Video cassetes for pharmacology practical where possible.
2. To calculate the pA, value of atropine using actylcholine as an agonist on rat ileum preparation.
3. To calculate the pA, value of mepyramine or chlorpheniramine using histamine as agonist on guinea pig ileum.
4. To estimate the strength of the test sample of agonist/drug (e.g. Acetylcholine, Histamine, 5-HT, Oxytocin, etc.) using a suitable isolated muscle preparation employing interpolation bioassay, Matching bioassay, Bracketing assay, Three point assay and Four point bioassay.
5. To study the Anti-secretory and anti-ulcer activity using pylorus ligated rats.
6. To determine the effects of certain clinically useful drugs on human volunteers like
   a) Antihistaminics
   b) Anti-anxiety and sedative drugs
   c) Analgesics
   d) Beta blockers.

List of Books Recommended

Practical Pharmacology

1. Ghosh, M.N. Fundamentals of Experimental Pharmacology . Scientific Book Agency, Kolkatta.
2. Tripathi Pharmacological Experiments in Intact & Isolated Preparations.
3. Grover J.K., Experiments in Pharmacy & Pharmacology, CBS Publishers, New Delhi.
4. Kulkarni S.K., Hand Book of Experimental Pharmacology, Vallabh Prakashan, Delhi.

Suggested Readings

1. Barar, F.S.K. Textbook of Pharmacology. Interprint, New Delhi.
2. Crossland, J. and Thomson, J.H. Essentials of Pharmacology. Harper & Row Publishers, New York.
3. Goodman and Gilman's The Pharmacological Basis of Therapeutics. Editors J.G. Hardman etal. Pergamon Press.
4. Mycek, M.J., Gertner, S.B. and Perper, M.M. Pharmacology. Lipponcott's Illustrated Reviews.
5. Paul, L. Principles of Pharmacology. Chapman & Hall.
6. Rang, M.P., Dale M.M. and Riter, J.M. Pharmacology. Churchill Livingstone.
7. Theoharides, T.C. Pharmacology. Little Brown & Co.
8. Lewi's Pharmacology
9. Katzung, B.G. Basic & Clinical Pharmacology, Prentice Hall, International.
10. Laurence, DR & Bannet PN; Clinical Pharmacology, Churchill Livingstone.
11. Satoskar & Bhandarkar; Pharmacology & Pharmacotherapeutics, Popular Prakashan Pvt.Ltd., Bombay.
12. Craig, C.R. and Stitzel, R.R., Modern Pharmacology, Little Brown and Co., 1994.
13. Sheffield Bioscience Programms, U.K., ISBN,1-874758-02-6
14. Harrisons Principles of Internal Medicine.

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BPH 4.7.5: Pharmaceutical Biotechnology

Theory (Total hours: 60) Max. Marks: 80

Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. **Introduction & historical background:** Define history, different branches and scope of biotechnology, Scientific & Technological foundations, Therapeutic & Pharmaceutical applications of biotechnology, and Micro & nano-technology for medicine. [9]
2. **Bio-technology & Medicines:** Vitamins, Steroids, Amino acid, Proteins, Antibiotics, and Natural compounds. [8]
3. **Immunology and Immunological Preparations:** Principles, antigens and haptens, immune system, cellular humoral immunity, immunological tolerance, antigen antibody reactions and their applications. Hypersensitivity, Active and Passive immunization; Vaccines- their reparation, standardization and storage. [10]
4. **Genetic Recombination:** Transformation, conjugation, transduction, protoplast fusion and gene cloning and their applications. Development of hybridoma for monoclonal antibodies. Study of drugs produced by biotechnology such as Activase, Humulin,Streptokinase Humatrope, Hepatitis B vaccine etc. [15]
5. **Microbial Transformation:** Introduction, types of reactions mediated by microorganisms, design of biotransformation processes, selection of organisms, biotransformation process and its improvements with special reference to steroids. [10]
6. **Enzyme immobilization:** Techniques of immobilization of enzymes, factors affecting enzyme kinetics. Study of enzymes such as hyaluronidase, penicillinase, streptokinase and streptodornase, amylases and proteases etc. immobilization of bacteria and plant cells. [8]

List of Books Recommended

1. Carter, S.J. Cooper and Gunns Tutorial Pharmacy CBS Publishers, Delhi.
2. Hygo, W.B. and Russel A.D. pharmaceutical microbiology 6th Ed Blackwell Scientific Publisher, Oxford.
3. Prescot, L.M. Harley, J.P. Klein, D.A.Microbiology 2nd edition,WmC.Brown publication, Oxford, England.
4. Kielslich, K. “Biotechnology” Volume 6a Verlag Cheme, Switzerland.
5. Peppler “Microbial Technology” Vol. II & I.
6. Prescott & Dunn “Industrial Microbiology” Mc Graw Hill.
7. Standbury, P.F., Whitaker, A. “Principles of Fermentation Technology” Pergamon Press, Oxford.
8. Ward, O.P. “Fermentation Technology, Principles, Processes & products” Open University press, Milton Keynes, U.K

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Institute of Pharmaceutical Sciences
Syllabus of B. Pharm. (Semester System)
VIII Semester

BPH 4.8.1: Pharmaceutics-XII (Pharmaceutical Technology-II)

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Microencapsulation: terminology, advantages and applications. Study of various processes employed for microencapsulation i.e. coacervation phase separation, multiorifice centrifuge, spray drying, spray congealing, polymerization, air suspension technique and pan coating. [9]
2. Parenterals: types of parenteral products, formulation aspects, pyrogens, production facilities, production procedures for small volume and large volume parenterals, large scale production of injectable grade water and quality control of parenterals. [12]
3. Design, development, production and evaluation of controlled release preparations. [8]
4. Pouch packaging: Materials used, advantages and limitation of pouch packing, pouch packing machinery, spectrum of applications, evaluation of pouch packing. [6]
5. Liquid Formulation Packaging: Various containers/closures employed for liquid formulations. Machinery employed for liquid filling – constant level, volumetric, gravimetric etc. Evaluation of liquid formulation packages. [6]
6. Semi-Solid Packaging: Various types of containers/packages used for semi-solid products, filling and sealing machinery (including collapsible tube filling and sealing machine) merits and limitations of various packages, evaluation of semi-solid product package. [7]
7. Sterile Product Packaging: General principles of packaging of sterile products. Various types of containers used for sterile products including small volume and large volume parenterals. Types of closures used for the sterile products. Sterile product filling and sealing machinery i.e. ampoule filling and sealing machine. Limitations and merits of various packages. Evaluation of the sterile product packages. [8]
8. Labelling: Labelling requirements, packaging inserts and machinery employed for labelling. [4]

BPH 4.8.1: Practical Pharmaceutics-XII (Pharmaceutical Technology-II)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. "*Remington' Pharmaceutical Sciences"*, Mack Publishing Co., P.A.
2. Leon Lachman, H A Liberman and J L Kanig, *"The Theory and Practice of Industrial Pharmacy,* Lea & Febiger, Philadelphia
3. *"Bentley's Textbook of Pharmaceutics"*, ELBS Bacilliere Tindall
4. Cooper and Guunn's,*"Dispensing for Pharmaceutical Students"*, CBS Publishers, Delhi.
5. Cooper and Gunn's *"Tutorial Pharmacy"*, CBS Publishers, Delhi.
6. T C KacChesney, *"Packaging of Cosmetics and Toiletories*", Newness- Butterworth, London

Reference Books

7. " *Modern Pharmaceutics"*,ed G S Banker and Rhodes, Marcel dekker Inc., NY
8. S Turco and R E king, " *Sterile Dosage Forms*", Lea & Febiger, Philadelphia
9. AI Brody & K S Marsh, *"The Wiley Encyclopedia of Packaging Technology", John* Wiley & Sons, New York

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BPH 4.8.2: Pharmaceutical Chemistry-X (Medicinal Chemistry-III)

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Chemistry and principles of prodrug design. [6]
2. Synthetic procedure of selected drugs, mode of action, uses, and structure activity relationship including physico-chemical properties of the following classes of drugs: [20]
   A. Insulin and oral hypoglycemic agents.
   B. Thyroid and Antithyroid drugs.
   C. Cardiovascular agents: Antihypertensives, Cardiotonics, Antiarrhythmics, antianginals, anticoagulants and antiplatelets, thrombolytics, antithrombolytics, hypolipoproteinimic drugs.
3. Mode of action, uses, and structure activity relationship including physico-chemical properties of the following chemotherapeutic agents: [28]
   a. Antibiotics including b-lactams, tetracyclines, aminoglycosides, polyenes, cycloserine, chloramphenicol.
   b. Antineoplastics
   c. Antifungals
   d. Antimycobacterials
   e. Antihelmentics
   f. Antiprotozoals
   g. Urinary antiseptics
4. Miscellaneous- [6] Diagnostic agents, Pharmaceutical aids.

BPH 4.8.2: Practical Pharmaceutical Chemistry-X (Medicinal Chemistry-III)

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. Wilson and Gisvold's *"Textbook of Organic Medicinal and Pharmaceutical Chemistry"*, J. Lippincot Co., Philadelphia.
2. W. O. Foye, *"Principles of Medicinal Chemistry"*, Lea and Febiger, Philadelphia.
3. *"Name reactions and Organic Drug Synthesis"* by Parveen Arora, Ahuja Publishing House, Delhi.

Reference Books

4. C. Hansch, *"Comprehensive Medicinal Chemistry"*, Pregman Press Oxford.
5. M. E. Wolff, Ed. *"Burger's Medicinal Chemistry"*, John Wiley & Sons, New York.
6. T. Nogardy, *"Medicinal Chemistry – A Biochemical Approach"*, Oxford University Press, New York, Oxford.

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BPH 4.8.3: Pharmaceutical Chemistry-XI (Pharmaceutical Analysis-III)

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Quality Assurance: [15]
   a) Philosophy of GLP, ISO-9000, TQM, quality Review and Quality documentation.
   b) Regulatory aspects: Legislation & regulatory control, regulatory drug analysis, interpretation of analytical data.
   c) Aspects of validation /quality audit, Quality of equipment, Validation of equipment, Validation of analytical procedures.
2. The theoretical aspects, basic instrumentation, elements of interpretation of spectra and applications of the following analytical techniques: [45]
   a) Ultraviolet and Visible Spectrophotometry.
   b) Fluorimetry.
   c) Infrared spectrophotometry.
   d) Nuclear magnetic resonance spectroscopy including ^{13}C NMR.
   e) Mass spectrometry.
   f) Flame photometry.
   g) Atomic absorption spectroscopy.

BPH 4.8.3: Practical Pharmaceutical Chemistry-XI (Pharmaceutical Analysis-III

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory.

List of Books Recommended

Text Books

1. William Kemp, *"Organic Spectroscopy"*, Macmillan Press Ltd.
2. Willard, Merritt, Dean, Settle, *"Instrumental Method of Analysis"*, CBS Publishers, New Delhi.
3. K. A. Conners, *"A Textbook of Pharmaceutical Analysis"*, Wiley Interscience, New York.

Reference Books

4. Silverstein et al., *"Spectrometric Identification of Organic Compounds"*.
5. Skoog, *"Fundamental of Analytical Chemistry"*.
6. John R. Dyer, *"Applications of Absorption Spectroscopy of Organic Compounds"*.

BPH 4.8.4: Pharmacology-VII (Clinical Pharmacy and Drug Interactions)

Theory (Total hours: 60) Max. Marks: 80
Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Introduction to Clinical Pharmacology. [4]

2. Important Disorders of Organ Systems and their Management: [16]
   a) Cardiovascular Disorders-Hypertension, Congestive Heart Failure, Angina, Acute Myocardial Infraction, Cardiac arrhythmia.
   b) CNS Disorders: Epilepsy, Parkinsonism, Schizophrenia, Depression.
   c) Respiratory Disease-Asthma
   d) Gastrointestinal Disorders-Peptic ulcer, Ulcerative colitis, Hepatitis, Cirrhosis.
   e) Endocrine Disorders-Diabetes mellitus and Thyroid Disorders.
   f) Infectious Diseases-Tuberculosis, Urinary Tract Infection, Enteric Infections, Upper Respiratory Tract Infections.

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g) Hematopoietic disorders-Anaemia
h) Joint and Connective Tissue Disorders-Rheumatic Diseases, Gout and Hyperuricemia.
i) Neoplastic Diseases-Acute Leukaemias, Hodgkin's disease.

3. Basic Concepts of Pharmacotherapy: [14]
a) Clinical Pharmacokinetics and individualization of Drug Therapy
b) Drug Delivery Systems and their Biopharmaceuticals & Therapeutic Considerations.
c) Drug used during Infancy and in the Elderly (Paediatrics & Geriatrics)
d) Drug use during Pregnancy
e) Drug induced Diseases
f) The Basics of Drug Interactions
g) General Principles of Clinical Toxicology
h) Interpretation of Clinical Laboratory Tests.

4. Receptor: Classification, Adenylecyclase, CAMP pathway, Phospholipase C, IP3, DAQ pathway. [6]

5. Neurological disorder: Myasthenia gravis, Alzheimer's disease, Parkinson's disease. [4]

6. Drug interaction, Biotransformation' [2]

7. Immunopharmacology: Introduction, immunomodulator, immunosuppressive agents and Immunostimulant. [4]

8. Statistical analysis using standard package: [6]
a) Introductory statistical concept, basic definitions,
b) Introduction to probability—binomial distribution, normal distribution, t distribution, the chi-square distribution and the F- distribution.
c) Estimation of these parameters by using computer
d) Analysis of variance and experimental design .One way analysis of variance, multiple Comparison, two way analysis of variance, Using a standard package.
e) Experimental design in clinical trial principles, parallel design, crosses over design.

9. Therapeutic Drug Monitoring. [2]

10. Concept of Essential Drugs and Rational Drug use. [2]

List of Books Recommended

1. Barar, F.S.K. Textbook of Pharmacology. Interprint, New Delhi.
2. Crossland, J. and Thomson, J.H. Essentials of Pharmacology. Harper & Row Publishers, New York.
3. Goodman and Gilman's The Pharmacological Basis of Therapeutics. Editors J.G. Hardman etal. Pergamon Press.
4. Mycek, M.J., Gertner, S.B. and Perper, M.M. Pharmacology. Lipponcott's Illustrated Reviews.
5. Paul, L. Principles of Pharmacology. Chapman & Hall.
6. Rang, M.P., Dale M.M. and Riter, J.M. Pharmacology. Churchill Livingstone.
7. Theoharides, T.C. Pharmacology. Little Brown & Co.
8. Lewi's Pharmacology
9. Katzung, B.G. Basic & Clinical Pharmacology, Prentice Hall, International.
10. Laurence, DR & Bannet PN; Clinical Pharmacology, Churchill Livingstone.
11. Satoskar & Bhandarkar; Pharmacology & Pharmacotherapeutics, Popular Prakashan Pvt.Ltd., Bombay.
12. Craig, C.R. and Stitzel, R.R., Modern Pharmacology, Little Brown and Co., 1994.
13. Sheffield Bioscience Programms, U.K., ISBN,1-874758-02-6
14. Harrisons Principles of Internal Medicine.
15. CMDT

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BPH 4.8.5: Pharmacognosy-VI

Theory (Total hours: 60) Max. Marks: 80

Exam. Hours: 03

Note: The paper setter will set 08 questions, out of which the candidate will be required to attempt 05 questions in all. First question shall be compulsory and consist of sub-parts of 1 or 2 marks each from the whole syllabus. All questions will carry equal marks.

1. Role of medicinal and aromatic plants in national economy. [4]
2. World-wide trade in medicinal plants and derived products with special reference to diosgenin (discorea), taxol (taxus sps), digitalis, tropane alkaloid containing plants, papain, cinchona, ipecac, liquorice, ginseng, Aloe vera, Valerian, rouwolfia and plant containing lexatives. [10]
3. A brief account of plant based industries and institutions involved in work on medicinal and aromatic plants in India, Utilization and production of phytoconstituents of poppy, ergot, cinchona, ipecac, tropane alkaloids, vinca, aloes, senna, ispaghula, digitalis, dioscorea and solanum Khasianum. [15]
4. Utilization of aromatic plants and derived products with special reference to menthol, citral, sandwood oil, vetiver oil, geronium oil and eucalyptus oil. [15]
5. Historical development of plant tissue culture, types of cultures, nutritional requirements, growth and their maintenance. Application of plant tissue culture in pharmacognosy [10]
6. Chemotaxonomy of medicinal plants with emphasis on alkaloids, carbohydrates, glycosides, phenolic compounds and terpenoids [6]

BPH 4.8.5: Practical Pharmacognosy-VI

Max. Marks: 80 Exam Hours: 03

Number of experiments based on aforementioned theory and including the following:

1. Isolation of some selected phytoconstituents studied in theory.
2. Extraction of volatile oils and their chromatographic profiles.
3. Some experiments in plant tissue culture.

List of Books Recommended

Text Books

1. Brain, K. R. and Turner, T. D., *"The Practical Evaluation of Phytopharmaceuticals"*, Wright – Scientechnica, Bristol.
2. *"Export Potential of Selected Medicinal Plants"*, Prepared by Basic Chemicals, Pharmaceuticals and Cosmetic export Promotion Council, Bombay, and other reports.
3. Kalia, A.N., Textbook of Industrial Pharmacognosy
4. Reinetrt, J. and Bajaj, Y. P. S., *"Applied and Fundamental aspects of Plant Cell, Tissue and Organ Culture*", Berlin.
5. "Herbal Drug Industry", Eastern Publishers
6. Rangari V.D., " Pharmacognosy and Phytochemistry" Part-I and II, Career Publication, Nashik.

Reference Books

7. Pridham, J. B. and Swain, T., *"Biosynthetic Pathways in Higher Plants*", Academic Press, New York
8. Wealth of India.
9. *"Supplement to Cultivation and Utilization of Medicinal Plants"*, RRL, Jammu-Tavi
10. Chopra, R. N., Nayar S. L. and Chopra, I. C., "*Glossary of Indian Medicinal Plants*", C S I R, New Delhi.
11. "Cultivation and Utilization of Aromatic Plants", RRL-Jammu Tavi

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Scheme of Examinations (K.U. Kurukshetra)

M. Pharm. (Pharmaceutical Management and Administration)

Semester - II

Paper Code	Subject	Hours/week	Hours/week	Sessional Examination	Final Examination	Max. Marks
		Theory	Practical/ sessional			
MPH – 121	Research Methodology and Biostatistics (common Paper)	4	--	20	80	100
MPH – 201	Management Concepts and Organizational Behaviour	4	--	15	60	75
MPH – 202	Pharmaceutical Marketing Management	4	--	15	60	75
MPH – 203	Accounting and financial management	4	--	15	60	75
MPH – 204	Managerial Economics	4	--	15	60	75
MPH--205	Soft Skills Development	2	2	Theory : 20 Practical: 30	--	50

Total = 450

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MPH – 205: Soft Skill Development

Total teaching hours:30

Max. Marks: 50
Theory Sessional Exam: 20 (1 hrs)
Practical: 30

Course Objective: The course aims at developing an understanding of various concepts concerning communication and grooming the personality of candidates by developing soft skills in them.

Course Contents:

Business Communication: Meaning, Basic forms of communication, Communication process, Theories of Communication; Self – Development and Communication; Body Language: meaning, importance and gestures.

Effective Listening: Principles of effective listening; Factors affecting listening exercise.

Group Discussion; Mock interviews; Interview skills: Appearing in interviews; Writing resume and letter of application.

Seminars: Oral presentation, principles of oral presentation, factors affecting presentation.

Report writing and its contents.

Modern forms of communication: Fax, E-mail, Video conferencing, etc.

Suggested Readings:

1. Bovee and Thill: Business Communication Today, Tata McGraw Hill, New Delhi.
2. Ronald E. Dulek and John S. Fielder: Principles of Business Communication; Macmillan Publishing Company, London.
3. Balasubramanyam: Business Communications; Vikas Publishing House, Delhi.
4. Kaul: Business Communication; Prentice Hall, New Delhi.
5. Kaul: Business Communication; Prentice Hall, New Delhi.

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Scheme of Examinations: M. Pharm. (Pharmaceutical Management & Administration)

M. Pharm. 3rd Semester Course Structure

Max. Marks: 450

Paper Code	Subject	Hours/week	Sessional Examination	Final Examination	Max. Marks
		Theory			
1. MPH – 301	International Business Management	4	15	60	75
2. MPH – 302	Production and Materials Management	4	15	60	75
3. MPH – 303	Business Laws and Regulatory affairs	4	15	60	75
4. MPH – 304	Strategic Management	4	15	60	75
5. MPH – 305	Sales and Retail Management	4	15	60	75
6. MPH - 306	Hospital Management and Administration	4	15	60	75

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Syllabus: M. Pharm. (Pharmaceutical Management and Administration)
Third Semester

MPH-301: INTERNATIONAL BUSINESS MANAGEMENT

Max Time: 3hrs. **Max Marks: 75**
Theory: 60
Internal: 15

Note : The paper setter will set seven questions in all and the candidates are required to attempt any five questions. All questions carry equal marks.

Course Objective:

The course aim is to provide insights into the emerging developments in International business environment and the management of international business operations.

Course Contents:

International business - meaning and modes of International business ; Globalization – concepts, characteristics and drivers ; International business environment – cultural, economic, political and legal environment ; World Trade Organizations (WTO) – structure and overview of agreements ; Regional economic groupings – meaning, levels and implications for International business ; Foreign Direct Investments (FDI's) – concepts, types, motives, impact of FDI, Foreign Direct Investment in India ; Multinational Enterprises(MNEs) – features, types, factors affecting MNEs ; Foreign market entry strategies and strategic alliances – basic entry decisions, entry modes selection, reasons and process of strategic alliance management.

Export-Import policy in India – salient features ; International commercial terms (Incoterms) ; Import-Export documentation - Bill of Exchange, Marine Insurance policy, Invoices and other documents ; Transport documents - Bill of lading, Airway Bill, Multimodal transport documents ; Letter of Credit – meaning, types of letter of credit ; Financing exports - preshipment credit, post-shipment finance ; Financing imports ; Export credit Insurance – standard and specific policies, guarantees.

Suggested Readings:

1. Sundram and Black : International business environment, Prentice Hall of India.
2. Daniels and Radebough : International Business, Pearson Education.
3. Charles WL Hill : International business, Tata Mc Graw Hill, N.Delhi.
4. Arun Kumar Jain : Competing in the Global market place, Tata Mc Graw Hill N.Delhi.
5. Francis Cherunilam ; International business, Prentice Hall of India.
6. Sunil Gupta : International Marketing, Kalyani Publishers N.Delhi.
7. Rao M.B. Manjula: WTO and International Trade, Vikas Publishing House, N.Delhi.
8. Aswathappa : International Business, Third Edition, Tata McGraw Hill, N.Delhi.
9. Rai, Usha Kiran : Export-Import and Logistics Management, Prentice Hall of India, N.Delhi.
10. Kapoor, D.C : Export Management, Vikas Publishing House.

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MPH-302: PRODUCTION AND MATERIALS MANAGEMENT

Max Time: 3Hrs **Max Marks: 75**

Theory: 60

Internal: 15

Note: The paper setter will set seven questions in all and the candidates are required to attempt any five questions. All questions carry equal marks.

Course objective:

The course is designed to acquaint the students with decision-making in planning, scheduling and control of production and materials management.

Course contents:

Nature and scope of production management ; Locating production and service facilities ; Layout planning and analysis ; Types of manufacturing systems and layout – mass production, batch production and job shop production ; Maintenance management ; Capacity planning ; Production planning and selection ; Process planning ; Aggregate planning and Master production scheduling ; Project management – project planning, project scheduling, PERT and CPM use.

Materials management – An introduction to materials management, Material requirement, Purchase management, Inventory control, Material handling ; Vendor selection, Make or buy decision, Negotiation ; Cost-reduction techniques –standardization, codification and variety reduction ; Waste management ; Value analysis ; Determination and description of material quality – acceptance sampling plan.

Suggested Readings:

1. Admn, E.E.and Ebert, RJ : Production and Operations Management, 6th Edition, N. Delhi, Prentice Hall of India, 1995.
2. Chunawalla and Patel : Production and Operations Management, Himalaya Publishing House.
3. Gopalakrishnan, P and Sundarshan, M : Handbook of Materials Management, N. Delhi, Prentice Hall of India,1994.
4. Dutta, A.K.: Integrated Materials Management, N. Delhi, PHI, 1986.
5. Buffa, E. S. and Sareen : Modern Production Management, New York, John Wiley, 2002.
6. Chary : Theory and Problems in Production and Operations Management, Tata Mc Graw Hill, N.Delhi.
7. Nair : Production and Operations Management, First Edition, Tata Mc Graw Hill, N.Delhi.
8. Gray and Larson : Project Management-The Managerial Process, Tata Mc Graw Hill, N.Delhi.

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MPH-303: BUSINESS LAWS AND REGULATORY AFFAIRS

Max Time: 3hrs. **Max Marks: 75**

Theory: 60

Internal: 15

Note : The paper setter will set seven questions in all and the candidates are required to attempt any five questions. All questions carry equal marks.

Course Objective:

The course aim is to provide insights into the business regulatory framework and business laws relevant to pharmaceutical industry.

Course Contents:

The Indian Contract Act, 1872 – meaning and essentials of contract ; Offer and Acceptance ; Capacity of the parties ; Consideration ; Free consent ; Legality of object ; Performance ; Discharge and remedies for breach of contract.

Sale of Goods Act, 1930 – relevant provisions.

Companies Act, 1956 – meaning, characteristics and types of companies ; Formation of company ; Meaning and contents of Memorandum of Association and Articles of Association ; Company management and managerial remuneration ; Company meetings and proceedings.

Regulatory Environment – Investigational new drug application (INDA) and new drug application (NDA); New drug development process; Pharmaceutical policy-2002; Analytical and bio-analytical development and research – a brief outline.

Intellectual property right (IPR) and Indian Pharmaceutical Sector: Various treaties governing IPR; Dunkel proposal; TRIPS & TRIMS and their implications for developing nations; Biodiversity and bio-technological patents; New developments in IPR and regulatory aspects – known substance, parallel exclusivity, exclusive marketing rights, Bolar provision, Para IV filling, strategic patenting.

An overview of:

The Consumer Protection Act, 1986.
The Foreign Exchange Management Act, 1999.
The MRTP Act, 1969 and Competition Act, 2002.

Suggested Readings:

1. Kapoor, N.D. : Essentials of Company law, Sultan Chand and Sons.
2. Tulsan, PC : Business law, Tata Mc Graw Hill.
3. Majumdar, A.K., Kapoor G.K : Company Law, Taxmann, N.Delhi.
4. Datey, V.S.: Business and Corporate Laws, Taxmann, N.Delhi.
5. Kapoor, G. K.: Business laws, Taxmann, N.Delhi.
6. Aggarwal, Rohini : Mercantile and Commercial Laws, Taxmann, N.Delhi.
7. Kuchhal, MC : Business Law includes IT Law with commentary, Vikas publishing House, N.Delhi.
8. Bargrial, K Askok : Company Law, Vikas Publishing House, N.Delhi.
9. Datey V.S : Business and Corporate Laws, Taxmann, N.Delhi.

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MPH-304: STRATEGIC MANAGEMENT

Max Time: 3hrs. **Max Marks: 75**
Theory: 60
Internal: 15

Note : The paper setter will set seven questions in all and the candidates are required to attempt any five questions. All questions carry equal marks.

Course Objective:

The course aim is to provide insights into the strategic decision-making and developing a strategic vision.

Course Contents:

Concept of Strategy – defining strategy, characteristics and approaches to strategic decision-making; Strategic management process; Developing a strategic vision, mission and setting objectives; Environmental appraisal – concept and components of environment; Analyzing the external (general and industry) environment; Organizational appraisal; Dynamics of internal environment, methods and techniques of organizational appraisal.

Generic strategy alternatives – stability, expansion, retrenchment and combination strategies; variations strategy - Internal and external alternatives, related and unrelated alternatives, horizontal and vertical alternatives ; International level strategic alternatives; Strategic choice-choice process, choice techniques, managerial factors.

Strategy implementation – the challenges of change and organizational learning; Strategy and structural decisions; Behavioural issues in implementation; Operational decisions in implementation; Strategic evaluation and control – need, process and techniques.

Suggested Readings:

1. Bhattacharya S.K and Venkataramia N : Managing business enterprises: strategies, structure and systems, Vikas Publishing House, N.Delhi.
2. Ferrel Lucas and Luck : Marketing strategy, Dryden Press.
3. Sontakki C.N : Strategic Management, Kalyani Publishers, N. Delhi.
4. Jauch and Glueck : Business policy and Strategic Management, Tata Mc Graw Hill, N. Delhi.
5. Kazmi, Azhar : Business policy, Tata Mc Graw Hill Publishing Co.Ltd., N. Delhi.
6. Miller, Alex : Strategic Management, Irwin Mc Graw Hill , Boston.
7. Rao, Subba P : Business policy and Strategic Management, Himalaya Publishing House, Delhi.
8. Srivastava, R.M : Management policy and Strategic Management, Himalaya Publishing House, Delhi.
9. Thompson, Arthur A : Strategic Management, Tata Mc Graw Hill, N. Delhi.
10. Jean-Neol Kapferer : The New Strategic Brand Management, Kogan Page India Pvt. Ltd.

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MPH-305 : SALES AND RETAIL MANAGEMENT

Max Time: 3hrs. **Max Marks: 75**

Theory: 60

Internal: 15

Note: The paper setter will set seven questions in all and the candidates are required to attempt any five questions. All questions carry equal marks.

Course Objective:

To acquaint students with the basic concepts and techniques of Sales and Retail Management.

Course Contents:

Sales Management – concept, objectives and functions ; Integrating sales and marketing management ; Personal Selling – concept and classification of sales jobs, buyer-seller dyads ; personal selling process ; Prescription, behavior and research ; Sales planning – importance, approaches and process of sales planning ; Sales forecasting ; Sales budgeting ; Sales organization – purpose, principles and process of setting up a sales organization, sales organization structure, field sales organization, determining size of sales force ; Determining sales territories and time management, designing and administration of different types of sales quotas ; Managing Sales force – Recruitment ; Selection ; Training ; Compensation ; Motivating and leading the sales force ; Sales meetings and contents, Control process – Analysis of sales volume ; marketing costs and profitability analysis ; management of sales force expenses ;evaluating sales force performance.

Retail management – concept, functions, importance and challenges in retail business ; theories of retailing ; classification of retail institutions on the basis – ownership, merchandise offered, store based and non- store based retailing ; strategic planning in retailing ; application of IT in retailing.

Suggested Readings:

1. Gupta S.L ; Sales and Distribution Management, Excel Books.
2. Anderson, Hair Bush ; Professionall Sales Management, Mc Graw Hill, Sngapore.
3. Dalrymple, D.J and W.J. Cron ; Sales Management –concepts and cases, John Wiley, New York.
4. Ford, Churchill, Walker ; Management of sales force, Mc Graw Hill, Singapore.
5. Johnson, Kurtz, Schewing ; Sales Management, Mc Graw Hill, Singapore.
6. Krik, C.A ; Salesmanship, taraporewala, Bombay.
7. Lancaster G ; Selling and Sales Management, Macmillan, N. Delhi.
8. Stanton W.J. and R. Shapiro ; Management of Sales force, Mc Graw Hill, Singapore.
9. Still, Richard R., Edward W. Candiff and Norman A.P Govoni ; Sales Management, prentice Hall, N. Delhi.
10. Gilbert David :Retail Marketing Management, Pearson Education, N.Delhi.
11. Pradhan, Swapna : Retail Management - Text and Cases, Tata McGraw Hill, N. Delhi.
12. Bermans and Evans : Retail Management – A Strategic Approach, Prentice Hall of India, N. Delhi.

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MPH – 306: HOSPITAL MANAGEMENT AND ADMINISTRATION

Max Time: 3Hrs **Max Marks: 75**
Theory: 60
Internal: 15

Note: The paper setter will set seven questions in all and the candidates are required to attempt any five questions. All questions carry equal marks.

Course objective:

The course is designed to acquaint the students with the planning, administration, organizational structure and control of hospitals.

Course contents:

Hospital – meaning, characteristics, role and functions of medical services ; systems view of hospitals ; health care systems – primary, secondary and tertiary ; classification of hospitals ; hospital planning and designing location and layout.
Outpatient and inpatient services ; nursing services ; clinical support services – radiology/diagnostic services ; operating department ; medical records ; pharmacy and central sterile supply department.

Planning process for hospitals; hospital administration – role and responsibilities of hospital administrator; hospital organization – structure and functions; types of hospital committees; directing the hospital staff – training, leading, motivating and communication ; controlling and evaluating hospital performance.

Managing service quality - need, mandatory requirements, constraints ; quality management programs – development process, tools and techniques ; control of hospital acquired infection and role of CSSD ; hospital waste management.

Suggested Readings :

1. Gupta Shakti, Dave,P.K : Hospital Stores management-An Integrated Approach, Jaypee Brothers Medical Publishers, N. Delhi.
2. Francis CM, de Souza Mario : Hospital Management,Third Edition, Jaypee Brothers Medical Publishers, N. Delhi.
3. Pankaj Mohan, Montague A. Gary, Glassey Jarka : Pharmaceutical Operations Management, McGraw Hill, N.Delhi.
4. Sakharkar BM : Principles of Hospital Administration and Planning, Jaypee Brothers Medical Publishers, N. Delhi.
5. Goodwin : Managing Health Services, First Edition, Tata Mc Graw Hill, N.Delhi.

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EL 205 Option (iv) - Advanced Device Physics for VLSI

Instructions: There shall be nine questions in total. Question number 1 will be compulsory and will consist of short conceptual type answers covering all the Units. There shall be eight more questions, two from each unit. Students are required to attempt four questions, selecting on e from each unit in addition to the compulsory question. All questions will carry equal marks.

Maximum Marks: 80, Time = 3 hours
Internal Assessment: 20 Marks

Unit I

Moore's Law and Its Implications, Scaling of MOSFETs, Practical CMOS Scaling, Gate coupling velocity overshoot, high field effects, substrate current, hot carrier effects, Current CMOS Device Technology, International Technology Roadmap for Semiconductors (ITRS) Projections

Unit II

Numerical simulation, Basic concepts of simulations, Device simulation, Simulation challenges. The Need for Semiconductor Device Modeling, Importance of Semiconductor Device Simulators, Key Elements of Physical Device Simulation, Historical Development of the Physical Device Modeling, Introduction to the Silvaco ATLAS Simulation Tool .

Unit III

The Scaling Limit of MOSFETs, New Materials ,Fully Depleted SOI
Double-Gate and Multiple-Gate FET Structures, Limits to Scaling, Power constrained scaling. Direct Source-Drain Tunneling EJ-MOSFETs, Concept of EJ-MOSFETs

Unit IV

Quantum Effects in Silicon Nano-devices, Carrier Confinement in Thin
SOI MOS Structures, Quantum effects on mobility and threshold voltage etc. Mobility and threshold voltage adjustment with quantum effects. Concept of ballistic transport, Resonant tunneling (RTD), Si based RTD devices, Concept of single electron transistor, Quantum well, quantum wire and quantum dot devices.

References:

a. Device electronics for integrated circuits - Muller & Kamins
b. Silicon Nanoelectronics - Shunri Oda & David Ferry, CRC Press
c. Computational Electronics - Dragica Vasileska and Stephen M. Goodnick, Morgan & Claypool Publishers

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Scheme of Examination (MCA) w.e.f. 2011-12 Third Year			
CS-DE-31	Computer Architecture & Parallel Processing	100	40
CS-DE-32	Web Engineering	100	40
CS-DE-33	Visual Programming	100	40
CS-DE-34	Elective – I	100	40
CS-DE-35	Elective-II	100	40
CS-DE-36	Project Report	100	40
CS-DE-37	Software Lab – I HTML/XML/Java/Java Script/JSP	100	40
CS-DE-38	Software Lab – II Visual Programming	100	40
	Total Marks	**800**	
	Elective Papers		
CS-DE-34(i)	Microprocessor		
CS-DE-34(ii)	Data Mining and Warehousing		
CS-DE-34(iii)	Software Project Management		
CS-DE-34(iv)	Java Programming		
CS-DE-35(i)	Principles of Programming Languages		
CS-DE-35(ii)	Theory of Computation		
CS-DE-35(iii)	Internet Computing		
CS-DE-35(iv)	Linux and Shall Programming		

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`CS-DE-31 COMPUTER ARCHITECTURE AND PARALLEL PROCESSING

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Computer Arithmetic: Hardware implementation and algorithms for addition and subtraction with signed-magnitude data, signed 2's complement data, multiplication for signed-magnitude data, Booth multiplication algorithm, array multiplier, division for signed magnitude data, divide overflow. Hardware implementation and algorithms for floating point addition, subtraction, multiplication and division.

Control Design: Hardwired Control – classical method, one-hot method; Microprogrammed Control – basic concepts and structure of a microprogrammed control unit, horizontal versus vertical microinstruction formats, microinstruction addressing.

Computational Model: Basic computational models, evolution and interpretation of computer architecture, concept of computer architecture as a multilevel hierarchical framework. Classification of parallel architectures, Relationships between programming languages and parallel architectures

Parallel Processing: Types and levels of parallelism, Instruction Level Parallel (ILP) processors, dependencies between instructions, principle and general structure of pipelines, performance measures of pipeline, pipelined processing of integer, Boolean, load and store instructions, VLIW architecture, Code Scheduling for ILP-Processors - Basic block scheduling, loop scheduling, global scheduling

UNIT – II

Superscalar Processors: Emergence of superscalar processors, Tasks of superscalar processing – parallel decoding, superscalar instruction issue, shelving, register renaming, parallel execution, preserving sequential consistency of instruction execution and exception processing, comparison of VLIW & superscalar processors

Branch Handling: Branch problem, Approaches to branch handling – delayed branching, branch detection and prediction schemes, branch penalties and schemes to reduce them, multiway branches, guarded execution

Distributed Memory MIMD Architectures: Solution for memory and synchronization latency, direct interconnection networks, Multicomputer architectures

Shared Memory MIMD Architectures: Dynamic interconnection networks, cache coherence problem and H/W & S/W based protocols, UMA, NUMA, CC-NUMA & COMA models

Text Books:

1. M. Morris Mano, Computer System Architecture, PHI, 2001
2. Sima, Fountain, Kacsuk, Advanced Compter Architecture, Pearson Education, 1997

Reference Books:

1. J.P.Hayes, Computer Architecture and Organization"; MGH, 1998.
2. Harry F. Jordan, Gita Alaghband, Fundamentals of Parallel Processing, Pearson Education, 2003
3. D. A. Patterson and J. L. Hennessey, Computer Organization and Design, Morgan Kaufmann, 2002.
4. Hwang & Briggs, Computer Architecture and Parallel Processing, MGH, 1984

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CS-DE-32 WEB ENGINEERING

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Role of Information Architect, Collaboration and Communication, Organizing Web Site parameters, Navigation Systems, Designing Search Interface for web-site, Conceptual Design, High-Level Design, Architectural Page Mockups, Design Sketches, good & bad web design, Process of Web Publishing, Phases of Web Site development, enhancing your web-site, web security.

HTML Basic Concepts, Static and dynamic HTML, Structure of HTML documents, HTML Elements, Linking in HTML, Anchor Attributes, Image Maps, Meta Information, Image Preliminaries, Layouts, Backgrounds, Colors and Text, Fonts, Tables, Frames and layers, Audio and Video Support with HTML, Database integration with HTML, CSS, Positioning with Style sheets. Forms Control, Form Elements.

UNIT – II

Introduction to CGI, PERL, URL, HTTP, Browser Requests, Server Responses, Proxies, Firewalls, CGI Environment Variables. Forms and CGI, Sending Data to the Server, Architectural Guidelines, Coding Guidelines, Efficiency and Optimization. Java Server Pages, Active Server Pages, Integrating Scripts in JSP, JSP Objects and Components, JSP: Request and response objects.

PHP, PHP variables, ASP .NET, Cookies, Creating and Reading Cookies, Relationship between HTML, SGML, and XML, XML Basics, XML for Data Files, Embedding XML into HTML documents, Converting XML to HTML and HTML to XML. Displaying XML using CSS and XSL, The future of XML.

Text-Books

1. Internet & World Wide Web How to Program, Pearson education, 3rd edition, by: H.M. Deitel, P.J. Deitel, A.B. Goldberg.
2. Web- Technologies, TCP/IP and Java Programming, McGraw-Hill Companies.

References-Books

1. Programming with World Wide Web, Pearson education, 4th edition, by: Sebesta.
2. Thomas A Powell, HTML-The Complete Reference, Tata McGraw Hill.
3. Scott Guelich, Shishir Gundavaram, Gunther Birzniek; CGI Programming with Perl 2/e. O'Reilly.
4. Doug Tidwell, James Snell, Pavel Kulchenko; Programming Web Services with SOAP, O'Reilly.

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CS-DE-33 VISUAL PROGRAMMING

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Introduction to Visual Basic: VB IDE, An overview of VB project types, VB as event-driven & object-based language, Default controls in Tool Box

Programming with VB: Variables, Constants, Data types, Arithmetic operators, String Operations, Built-in function, I/O in VB, Branching & Looping statements, Procedures, Arrays, collection.

Menus and Dialog Boxes: Adding menus and manipulating, using Common Dialog Box

Working with Forms: Working with multiple forms, MDI form, loading, showing and hiding forms, drag and drop operation

Advanced Controls in VB: Scroll Bar, Slider Control, TreeView, List View, RichText Box Control, Toolbar, Status Bar, Progress Bar, Cool bar, Image List, Tab Strip.

UNIT – II

File Handling & File Controls: Working with sequential & random files, performing operations on a file

Working with Graphics: Using Paint, Line, Circle, RGB and other related method, manipulating graphics.

Using modules & class modules in VB

ActiveX: Creating & using ActiveX Controls, Creating & using ActiveX Documents, ActiveX EXE, and ActiveX DLL*

VB & Databases: The Data Controls and Data-Bound Controls, Using DAO, RDO, ADO.

Internet features: Creating & using a Web-Browser, Programming E-Mail, Using the Internet Transfer Control.

Creating & Using OLE.

Text Books:

1. **Visual Basic 6 Programming : Black Book By Steven Holzner dreamtech PRESS**
2. **Mastering Visual Baisc 6 By Evangelos Petroutsos BPB**
3. **Programming in Visual Basic 6.0 By Julia Case Bradley & Anita C. Millspaugh Tata McGraw-Hill Edition**

Reference Books:

1. **Step by Step Microsoft Visual Basic 6.0 Professional By Michael Halvorson PHI**
2. **Visual basic 6 Complete BPB**
3. **Teach Yourself Visual basic 6 By Scott Warner Tata McGraw-Hill Edition**
4. **Using Visual Basic 6 Special Edition By Brian Siler and Jeff Spotts PHI**

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CS-DE-34(I) MICROPROCESSORS

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Microprocessor and Its Architecture: Internal microprocessor architecture, real mode memory addressing, protected memory addressing, memory paging. Data, Program Memory and Stack Memory addressing modes. 8086/8088 Microprocessors – pinouts and pin functions, clock generator (8284A), Bus buffering and latching, Bus timing, ready and wait state, minimum and maximum mode.

Memory Interface: Memory Devices, Address Decoding, 8-bit, 16-bit, 32-bit and 64-bit memory interfaces, Dynamic RAM.

Basic I/O Interface: I/O Interface, I/O Port Address Decoding, Programmable Peripheral Interface, 8279 Programmable Keyboard/Display Interface, 8254 Programmable Interval Timer, 16550 Programmable Communication Interface, RS232C, SCSI adapter.

UNIT – II

Interrupts: Basic Interrupt Processing, Hardware Interrupts, Expanding the Interrupt Structure, 8259A Programmable Interrupt Controller.

Direct Memory Access (DMA): Basic DMA Operations, 8237 DMA Controller, Shared Bus Operations.

Bus Interface: ISA, EISA, VESA Buses, PCI, USB Bus.

386, 486, Pentium, Pentium Pro Microprocessors and Pentium IV: Register Configuration & Memory Management, Introduction to Core 2 Duo & Quadcore Processors.

Text Books:

1. The Intel Microprocessors 8086/8088, 80186/80188,80286, 80386, 80486, Pentium, Pentium Pro Processors, Pentium II, Pentium III, Pentium 4 and Core2 with 64-bit Extensions: Architecture, Programming and Interfacing, Barry B. Brey, 8th Edition, Pearson Education-2009.

Reference Books:

1. The 80386, 80486, and Pentium Processors: Hardware, Software, and Interfacing, Walter Tribel, Prentice Hall, 1998, ISBN #0-13-533225-7
2. Microcomputer Systems: Architecture, Programming, and Design. By Liu and Gibson (PHI).

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CS-DE-34(II) DATA WAREHOUSING AND DATA MINING

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Introduction: The Evolution of Data Warehousing (The Historical Context), The Data Warehouse - A Brief History, Characteristics, Operational Database Systems and Data Warehouse (OLTP & OLAP), Today's Development Environment, Data Marts, Metadata.

Multidimensional Data Models: Types of Data and their Uses, from Tables and Spreadsheets to Data Cubes, Identifying Facts and Dimensions, Designing Fact Tables, Designing Dimension Tables, Data Warehouse Schemas, OLAP Operations.

Principles Of Data Warehousing (Architecture And Design Techniques): System Processes, Data Warehousing Components, Architecture for a Data Warehouse, Three-tier Data Warehouse Architecture, Steps for the Design and Construction of Data Warehouses.

Implementation: Methods for the Implementation of Data Warehouse Systems.

Data Mining: Introduction: Motivation, Importance, Knowledge Discovery Process, KDD and Data Mining, Data Mining vs. Query Tools, Kind of Data, Functionalities, Interesting Patterns, Classification of Data Mining Systems, Major issues, From Data Warehousing to Data Mining.

Data Preparation: Preprocess, Data Cleaning, Data Integration and Transformation, Data Reduction.

UNIT – II

Data Mining Primitives, Languages, and System Architectures.

Concept Description: An Overview of Descriptive Data Mining, Predictive Data Mining, Methods for Concept Description.

Mining Association Rules: Association Rule Mining, Market Basket Analysis, Types of Association Rules, Methods for Mining Association Rules in Transaction Databases, Relational Databases and Data Warehouses.

Classification and Prediction: Methods for Data Classification and Prediction.

Cluster Analysis Introduction: Types of data in Cluster Analysis, A categorization of major Clustering Methods, Density-based methods, Grid-based methods, Model-based clustering methods, Outlier Analysis.

Applications of Data Mining.

Tools for Data Mining.

Reference Books:

1. J Hanes, M. Kamber, "Data Mining Concepts and Techniques", Morgan Kaufmann Publishers, 2002.
2. Glenn J. Myatt, "Making Sense of Data", Wiley 2007.
3. Adriaans, "Data Mining", Pearson Education.
4. Paolo Giudici, "Applied Data Mining – Statistical Methods for Business and Industry", Wiley 2003.

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CS-DE-34(III) SOFTWARE PROJECT MANAGEMENT

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Software - characteristics-components - crisis on the horizon-software myths, software process, software process models-linear sequential model-prototyping model- RAD model- incremental, spiral, component, assembly and concurrent development models.

Project Management concept: Project, problems with software projects, activities covered by SPM.

Project schedule planning: Top down and bottom up planning, initial and final project schedule plans, types of activity relationships, estimating the duration of an activity, critical path, identifying milestones, activity responsibility matrix, project check list.

Project Tracking: Overview of project progress, project outlook, occurrence of tracking, tracking meetings, tracking meeting ground rules, recovery plans, the role of escalations.

UNIT – II

Software process and project metrics: - Metrics and indicators- metrics for software quality- integrating metrics within the software process. Software project planning: Planning objectives - software scope-resources software project estimation- Empirical estimation models-COCOMO model. Risk management: software risks-risk identification-risk projection-risk mitigation, monitoring and management- RMMM plan.

Project scheduling and tracking: Basic concepts-relation between people and effort, defining task set for the software project-selecting software engineering task-refinement of major task-defining a task network-scheduling-project plan. Software quality assurance-quality concepts-software reviews-formal technical review-Formal approaches to SQA - the ISO 9000 quality standards. Software configuration management: baselines-software configuration item-the SCM process identification of objects in software configuration-version control-change control configuration audit-status reporting-SCM standards.

Text Books:

1. Walker Royce, Software Project management: A unified framework , Pearson Education
2. Pankaj Jalote., Software Project management in practice, Pearson Education

References Books:

1. Kelkar, S.A., Software Project management: A concise study, PHI
2. Hughes Bob and Cottorell Mike, Software Project management – TMH.
3. Sommerville I, Software engineering , Addison Wesley
4. Robert Futrell, Donald F Shafer and Linda I, Quality software project management, Person Education
5. Pressman, R. S., Software Engineering, McGraw Hill International
6. Neal Whitten, 'Managing Software Development Projects, Formula for Success', John Wiley and sons, II edition, 1995.
7. Watts Humphrey, 'Managing the Software Process', Addison Wesley, 1989.

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CS-DE-34(IV) JAVA PROGRAMMING

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Features of Java, Data types, operators & expressions, control structures, arrays, Class, objects & methods, constructors, garbage collection, access qualifiers, string handling – string operations, character extraction, string comparison, searching and modifying strings, StringBuffer, packages and interfaces, Wrapper classes.
Inheritance: single and multilevel inheritance, method overriding, abstract class, use of super and final keywords.
Exception Handling: Exception types, uncaught exceptions, multiple catch clauses, nested try statements, built-in exceptions, creating your own exceptions.
Multithreading: Java thread model, creating multiple threads, thread priorities, synchronization, interthread communication, suspending, resuming and stopping threads.

UNIT – II

Applets: Local & Remote Applets, Applet Architecture, Passing Parameters to Applets.
I/O Streams: Console I/O – reading console input, writing console output, Files I/O – Byte Streams, Character Streams.
Collection Interfaces & Classes, Delegation Event Model
AWT Classes: Window fundamentals, working with graphics, working with color & fonts. AWT controls, layout managers & menus
Swing Classes, Java Beans, Servlet classes & Life Cycle

Text Books:

1. The Complete Reference Java 2, Fourth Edition, Herbert Schildt, Tata McGraw Hill-2001
2. Introduction to Java Programming (7th Edition), Liang Y.Daniel, 2009, Pearson Education.

Reference Books:

1. Java 1.2, Steven Holzner, BPB-1998
2. Programming with Java - E. Balaguruswami, Second Edition, Tata McGraw Hill-1998.
3. A Programmer's Guide to Java Certification, Mughal K.A., Rasmussen R.W., Addison-Wesley, 2000

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CS-DE-35(I) PRINCIPLES OF PROGRAMMING LANGUAGES

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Preliminaries - language paradigms, language criteria, language design trade-offs, influences on language design, bindings, type checking, and scopes, variables and data types: primitive data types, variables, structured data types. Abstraction: data abstraction, control abstraction, procedural abstraction.

Formal languages and automata - The Chomsky hierarchy of formal languages, regular grammars, regular expressions, finite automata, Context-free grammars: pushdown automata, ambiguous grammars.

Imperative programming - structured programming, procedure activations: parameter passing methods, scope rules, and activation records.

UNIT – II

Object oriented programming - messages, methods and encapsulation, classes and polymorphism, inheritance and object orientation, design issues for object oriented languages.

Functional programming - Features of functional languages, implementing functional languages, applications of functional languages.

Logic programming - Formal logical systems, implementations and applications.

Languages for databases - manipulating relational databases using SQL.

Language constructs for parallel processing - the paradigm, multiple processes, synchronization of cooperating processes.

Text Books:

1. Pratt E. Terrence & Zelkowitz V. Marvin, Programming Languages – Design & Implementation, Prentice Hall of India.
2. Appleby Doris & VandeKopple J. Julius, Programming languages-Paradigm and practice 2nd ed. (Tata McGraw Hill - 1999)

Reference Books:

1. Sebesta W. Robert, Concepts of programming languages 4th ed.,(Addison Wesley - 2000)
2. Sethi Ravi, Programming languages 2nd ed. (Addison Wesley - 2000)

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CS-DE-35(II) THEORY OF COMPUTATION

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Theory of Computation: Formal Language, Need for formal computational models, Non-computational problems, diagonal argument and Russel's paradox.

Deterministic Finite Automaton (DFA), Non-deterministic Finite Automaton (NFA), Regular Languages and regular sets, Equivalence of DFA and NFA, Kleen's characterization theory for sets accepted by finite automata, Minimizing the number of states of a DFA, Non-regular languages and pumping lemma.

UNIT – II

Pushdown Automaton (PDA), Deterministic Pushdown Automaton (DPDA), Non-equivalence of PDA and DPDA.

Context Free Grammars: Greibach Normal Form (GNF) and Chomsky Normal Form (CNF), Ambiguity, Parse Tree Representation of Derivations, Equivalence of PDA's and CFG's, Parsing techniques for parsing of general CFG's-Early's, Cook-Kassami-Younger (CKY), and Tomita's parsing.

Linear Bounded Automata (LBA): Power of LBA, Closure properties.

Turing Machine (TM), One tape, multitape, the notion of time and space complexity in terms of TM, construction of TM for simple problems, Computational complexity.

Chomsky Hierarchy of languages: Recursive and recursive-enumerable languages.

Reference Books:

1. Lewis, H.R. & Papadimitrious, C.H. Elements of the theory of computation. PHI
2. Salomma, A.K. Formal languages, Academic press.
3. Hopcroft, J. E. & Ullman, J. D. Formal languages and their relation to Automata Addison-Wasley
4. E. V. Krishnamurthy, Introductory theory of computer science East-West press Pvt. Ltd.
5. Zoha Mauna, Mathematical theory of computation, Wiley inter-science.
6. John Minsky, Theory of computation, PHI.
7. Greenberg M., Introduction to Automata Theory, Addison Wesley.

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CS-DE-35(III) INTERNET COMPUTING

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Internet Architecture; Interconnection through IP Routers; End Systems, Clients, and Servers; Connectionless and Connection-Oriented Service; Access Networks; Growth of Internet; ISPs and Internet Backbone; Virtual circuit and datagram networks; Internetworking; TCP/IP Protocol Architecture; Operation of TCP and IP; process-to-process delivery; TCP services and features; TCP connection; TCP flow and congestion control; Connectionless Transport: UDP segment structure; UDP operation and uses; SCTP Services; SCTP Features and Packet Format;
Routers: Input Ports, Switching Fabric, Output Ports; Internet Protocol (IP); IPv4 addressing; fragmentation; Type of Service; Classful and Classless addressing; Subnetting and Supernetting; CIDR; Network Address Translation(NAT); IPv6 and its comparison with IPv4; Format and Headers of IPv6; Traffic class, Flow label, IPv6 addresses – Structure and Address Space; Transition from IPv4 to IPv6; Internet Control Message Protocol (ICMP):Types of Messages, Error Reporting, Query; IGMP: Group management, IGMP Messages, Message Format; IGMP operation;
Error Detection and Correction; Media Access Protocols; Sliding Window Protocols;

UNIT – II

Address mapping: Address Resolution Protocol (ARP), Reverse Address Resolution Protocol (RARP); Bootstrap protocol (BOOTP); Dynamic Host Configuration Protocol;
Routing: Routing Algorithms; Interior and Exterior routing protocols; Autonomous Systems; RIP; OSPF; BGP; Congestion Control Algorithms; Quality of Service;
Virtual-Circuit Networks: Frame Relay Networks, ATM Networks;
Network Management System; SNMP;
Network and Internet Security: Security services; cryptography; Message confidentiality with symmetric and asymmetric- key cryptography; Attacks and Countermeasures; Message Integrity: fingerprint, message digest, hash algorithms; Authentication; Digital Signature; Key management; Certificates; IPSec; SSL/TLS; PGP;
Multimedia: Multimedia Networking Applications; Streaming Stored Audio and Video; Audio and Video Compression; RTP; Voice over IP;

Text Books:

1. James F. Kurose, Keith W. Ross, Computer Networking, A Top-Down Approach Featuring the Internet, Pearson Education.
2. Behrouz A. Forouzan, Data Communications and Networking, Fourth Edition, McGraw Hill.

Reference Books:

1. Douglas E. Comer, Internetworking with TCP/IP Volume – I, Principles, Protocols, and Architectures, Fourth Edition, Pearson Education.
2. Mahbub Hassan, Raj Jain, High Performance TCP/IP Networking, Concepts, Issues, and Solutions, Pearson Education.
3. William Stallings, High-Speed Networks and Internets, Performance and Quality of Service, Pearson Education.
4. Andrew S. Tanenbaum, "Computer Networks", Pearson Education.
5. Wayne Tomasi, "Introduction to Data Communications and Networking", Pearson Education.

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CS-DE-35(IV) LINUX & SHELL PROGRAMMING

Maximum Marks: 100 Minimum Pass Marks: 40 Time: 3 hours

Note: **Examiner will be required to set TEN questions in all selecting FIVE questions from each unit. Students will be required to attempt FIVE questions in all selecting at least two questions from each unit. All questions will carry equal marks.**

UNIT – I

Introduction to Linux: Linux distributions, Linux/Unix operating system, Linux/Unix architecture, Features of Linux/Unix, Accessing Linux system, Starting and shutting down system, Logging in and Logging out

Commands in Linux: General-Purpose commands, File oriented commands, directory oriented commands, Communication-oriented commands, process oriented commands, etc.

Regular expressions & Filters in Linux: Simple filters viz. more, wc, diff, sort, uniq, etc., grep, sed. introducing regular expressions.

Linux/Unix file system: Linux/Unix files, inodes and structure and file system, file system components, standard file system, file system types, file system mounting and unmounting.

Processes in Linux : starting and stopping processes, initialization Processes, mechanism of process creation, rc and init files, job control - at, batch, cron, time, Signal handling.

UNIT – II

Shell Programming: vi editor, shell variables, I/O in shell, control structures, loops, subprograms, creating shell scripts.

Basic system administration in Linux/Unix.

The C Environment

The C compiler, compiler options, managing projects, memory management, use of makefiles, dependency calculations, memory management - dynamic and static memory, building and using static and dynamic libraries, using ldd, soname, dynamic loader, debugging with gdb.

Text Books:

1. John Goerzen: Linux Programming Bible, IDG Books, New Delhi.
2. Sumitabha Das: Your Unix - The Ultimate Guide, TMH.
3. Richard Petersen: The Complete Reference – Linux, McGraw-Hill
4. Yashwant Kanetkar: Unix & Shell programming - BPB

Reference Books:

1. M.G.Venkateshmurthy: Introduction to Unix & Shell Programming, Pearson Education
2. Stephen Prata: Advanced UNIX-A programmer's Guide, SAMS

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CS-DE-36 Project Report

Maximum Marks: 100 (Evaluation: 50 Viva-Voce: 50)
(Pass Marks: 20 Pass Marks: 20)

In this paper, the students have to take up a case study relating to a real world entity such as Library, Hospital, Hotel, Company, College, University etc.. They have to prepare a project report consisting of the following components:

Format of the student project report on completion of the project

(1) Cover Page: It should be as per format and the project title should be simple and understandable such as "Computerization of Inventory Management System for ABC Company".

(2) Self Certificate from the candidate: As per format.

(3) Certificate from the guide: As per format.

(4) Acknowledgement: In the "Acknowledgement" page, the writer recognizes his indebtedness for guidance and assistance of the thesis guide and other members of the faculty/company. Courtesy demands that he also recognizes specific contributions by other persons or institutions such as libraries and research foundations. Acknowledgements should be expressed simply, tastefully, and tactfully.

(5) List of abbreviations, Figures, Tables

(6) Table of Contents

(7) Objective & Scope of the Project: Write 8-10 pages introduction of the project. It should also include objectives, scope of work, tools and environment, s/w development life cycle used.

(8) System Analysis: Write about how you collected and captured user's requirements for the project undertaken by you. Mention which existing methodology you used to collect the user's requirements.

(9) Design: Explain the high-level and low level design of the system you are developing.

(10) Implementation & Testing: Implement the design by using appropriate platform. Write various types of test strategies used by you. Write various test cases prepared by you.

(11) Conclusion & Future scope: Conclude your project in this component and mention possible future extensions to your project.

(12) Bibliography/References: Give details of reference books, website, journals etc. used.

List of Sample Projects:

a) Library Management System (VB/Oracle, ASP/Access)
b) Hospital Management System (VB/Oracle, ASP/Access)
c) Inventory Management System (VB/Oracle)
d) Pathology Report generation (C++, VB, ASP, Java)
e) Encryption/Decryption for Email (VB, C++, VC++, Java)
f) Student/Teacher Collaboration (ASP, Java servlets)
g) Personal Income Tax Planner (ASP, Jscript, Java, VB, C++)
h) Banking System (VB/Oracle)
i) Trader sales register (VB/Oracle, ASP/Access, SQL-Server)

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j) Airlines Boarding Pass System (VB/Oracle, ASP, C++)

k) Pre-Paid Taxi Management System (C++, VB, ASP, Jscript)

l) Menu-Recipe Management system (C++, VB, ASP)

m) Editor for a Unix Text Terminal (C++)

n) Departmental Document Management System (PERL, C++)

o) Automatic Stock Trigger Warning System (VB/Oracle, ASP Access etc.)

p) Etc.

Guidelines for Preparing Project Report

The following guidelines must be followed in preparing the Final project Report:

Good quality white executive bond paper A4 size should be used for typing and duplication. Care should be taken to avoid smudging while duplicating the copies.

Page Specification: (Written paper and source code)

Left margin – 1.25"

Right margin – 1.25"

Top margin – 1"

Bottom margin – 1"

Page numbers - All text pages as well as Program source code listing should be numbered at the bottom center of the pages.

Normal Body Text: Font Size: 12, Times New Roman, 1½ Spacing, Justified. 6 point above and below para spacing

Paragraph Heading: Font Size**:** 14, Times New Roman, Underlined, Left Aligned. 6 point above & below spacing.

Chapter Heading: Font Size: 18, Times New Roman, Centre Aligned, 12 point above and below spacing.

Coding: Font size**:** 10, Courier New, Normal

Binding: Project Report should be typed on both sides of the page and binding of the Project Report should be with Art paper.

Submission of Project Report to the University: The student will submit two **hard Copy of** his/her project report in the prescribed format.

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Declaration from the student

I, <*Student Name*>, a student of Master of Computer Applications (MCA), in the Directorate of Distance Education, Kurukshetra University, Kurukshetra, under Roll No.------, for the session ----------, hereby, declare that the project entitled "*Title of the Project"* has been completed by me under the supervision of <*Guide name*>.

The matter embodied in this project work has not been submitted earlier for award of any degree or diploma to the best of my knowledge and belief.

Date: **(*Student Name*)**

iii) Certificate from the Guide

It is certified that Mr./Ms.<*Student Name*>, a student of Master of Computer Applications (MCA) in the Directorate of Distance Education, Kurukshetra University, Kurukshetra, under Roll No.------ for the session …....., has completed the project entitled <*Title of the project*> under my supervision. .

(*Guide Name*)

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A

Project Report

On

<PROJECT TITLE>

Submitted in the partial fulfillment of the requirement

for the award of degree of

Master of Computer Applications

(Session:)

Supervised By:

<Name of Guide>

<Official address>

Submitted By:

<Student Name>

Examination Roll No.

DDE Reference No.

Directorate of Distance Education

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For the students of 2009-10 batch for the sessions 2010-11& 2011-12

B.Sc. Part-II (IIIrd Semester)

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A.	Time
VIII	CH-201	Inorganic Chemistry (Theory)	33 + 4	3 hrs.
IX	CH-202	Physical Chemistry (theory)	33 + 3	3 hrs.
X	CH-203	Organic Chemistry (theory)	33 + 4	3 hrs.

B.Sc. Part-II (IVth Semester)

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A. (Internal Assessment)	Time
XI	CH-204	Inorganic Chemistry (theory)	33 + 4	3 hrs.
XII	CH-205	Physical Chemistry (theory)	33 + 3	3 hrs.
XIII	CH-206	Organic Chemistry (theory)	33 + 4	3 hrs.
XIV	CH-207	Practicals	72 + 08	7 hrs.

Note: Practical Exams will be held at the end of 4th Semester

B.Sc. III (Vth) Semester

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A. (Internal Assessment)	Time
XV	CH-301	Inorganic Chemistry (theory)	33 + 3	3 hrs.
XVI	CH-302	Physical Chemistry (theory)	33 + 4	3 hrs.
XVII	CH-303	Organic Chemistry (theory)	33 + 4	3 hrs.

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B.Sc. III (VIth Semester)

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A. (Internal Assessment)	Time
XVIII	CH-304	Inorganic Chemistry (theory)	33 + 3	3 hrs.
XIX	CH-305	Physical Chemistry (theory)	33 + 4	3 hrs.
XX	CH-306	Organic Chemistry (theory)	33 + 4	3 hrs.
XXI	CH-307	Practicals	72 + 08	7 hrs.

Note: Practical Exams will be held at the end of 6th Semester

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B. Sc. II Year (IIIrd Semester)

Paper VIII (Theory) Inorganic Chemistry (CH-201)

Max. Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

Section-A

Chemistry of d-Block Elements

Definition of transition elements, position in the periodic table, General characteristics & properites of d-block elements, Comparison of properties of 3d elements with 4d & 5d elements with reference only to ionic radii, oxidation state, magnetic and spectral properties and stereochemistry. Structures & properties of some compounds of transition elements – TiO_2, $VOCl_2$, $FeCl_3$, $CuCl_2$ and $Ni(CO)_4$

Section-B

1. Coordination Compounds

Werner's coordination theory, effective atomic number concept, chelates, nomenclature of coordination compounds, isomerism in coordination compounds, valence bond theory of transition metal complexes

2. Non-aqueous Solvents

Physical properties of a solvent, types of solvents and their general characteristics, reactions in non-aqueous solvents with reference to liquid NH_3 and liquid SO_2

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B. Sc. IInd Year (IIIrd Semester)

Paper IX (Theory) Physical Chemistry (CH-202)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

SECTION – A

Thermodynamics

Definition of thermodynamic terms: system,surrounding etc. Types of systems, intensive and extensive properties. State and path functions and their differentials. Thermodynamic process. Concept of heat and work.

Zeroth Law of thermodynamics, First law of thermodynamics: statement, definition of internal energy and enthalpy. Heat capacity, heat capacities at constant volume and pressure and their relationship. Joule's law – Joule – Thomson coefficient for ideal gass and real gas: and inversion temperature. Calculation of w.q. dU & dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process, Temperature dependence of enthalpy, Kirchoffs equation.

Bond energies and applications of bond energies.

Section-B

Chemical Equilibrium

Equilibrium constant and free energy, concept of chemical potential, Thermodynamic derivation of law of chemical equilibrium. Temperature dependence of equilibrium constant; Van't Hoff reaction isochore, Van't Hoff reaction isotherm.

Le-Chatetier's principle and its applications Clapeyron equation and clausius – clapeyrou equation its applications.

Distributioln Law

Nernst distribution law – its thermodynamic derivation, Modification of distribution law when solute undergoes dissociation, association and chemical combination. Applications of distribution law: (i) Determination of degree of hydrolysis and hydrolysis constant of aniline hydrochloride. (ii) Determination of equilibrium constant of potassium tri-iodide complex and process of extraction.

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B. Sc. IInd Year (IIIrd Semester)

Paper X (Theory) Organic Chemistry (CH-203)

Max. Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

1.Alcohols

Monohydric alcohols — nomenclature, methods of formation by reduction of aldehydes, ketones, carboxylic acids and esters. Hydrogen bonding. Acidic nature. Reactions of alcohols.
Dihydric alcohols — nomenclature, methods of formation, chemical reactions of vicinal glycols, oxidative cleavage [$Pb(OAc)_4$ and HIO_4] and pinacol-pinacolone rearrangement.

2.Phenols

Nomenclature, structure and bonding. Preparation of phenols, physical properties and acidic character. Comparative acidic strengths of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols — electrophilic aromatic substitution, Mechanisms of Fries rearrangement, Claisen rearrangement, Reimer-Tiemann reaction, Kolbe's reaction and Schotten and Baumann reactions.

3.**Epoxides**

Synthesis of epoxides. Acid and base-catalyzed ring opening of epoxides, orientation of epoxide ring opening, reactions of Grignard and organolithium reagents with epoxides.

Section-B

1. Ultraviolet (UV) absorption spectroscopy

Absorption laws (Beer-Lambert law), molar absorptivity, presentation and analysis of UV spectra, types of electronic transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts. UV spectra of conjugated enes and enones,Woodward- Fieser rules, calculation of λ_{max} of simple conjugated dienes and α,β-unsaturated ketones. Applications of UV Spectroscopy in structure elucidation of simple organic compounds.

2.**Carboxylic Acids & Acid Derivatives**

Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids. Mechanism of decarboxylation.

Structure , nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution.

Mechanisms of esterification and hydrolysis (acidic and basic).

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B. Sc. II Year (IVth Semester)

Paper XI (Theory) Inorganic Chemistry (CH-204)

Max. Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

Section-A

Chemistry of f – block elements

Lanthanides

Electronic structure, oxidation states and ionic radii and lanthanide contraction, complex formation, occurrence and isolation, lanthanide compounds.

Actinides

General features and chemistry of actinides, chemistry of separation of Np, Pu and Am from U,

Comparison of properties of Lanthanides and Actinides and with transition elements.

Section-B

Theory of Qualitative and Quantitative Inorganic Analysis

Chemistry of analysis of various groups of basic and acidic radicals, Chemistry of identification of acid radicals in typical combinations, Chemistry of interference of acid radicals including their removal in the analysis of basic radicals. Theory of precipitation, co-precipitation, Post- precipitation, purification of precipitates.

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B. Sc. IInd Year (IVth Semester)

Paper XII (Theory) Physical Chemistry (CH-205)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

Section-A

Thermodynamics

Second law of thermodynamics, need for the law, different statements of the law, Carnot's cycles and its efficiency, Carnot's theorm, Thermodynamics scale of temperature. Concept of entropy – entropy as a state function, entropy as a function of V & T, entropy as a function of P & T, entropy change in physical change, entropy as a criteria of spontaneity and equilibrium. Entropy change in ideal gases and mixing of gases.

Third law of thermodynamics: Nernst heat theorem, statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data. Gibbs and Helmholtz functions; Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities, A & G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change. Variation of G and A with P, V and T.

Section-B

Electrochemistry

Electrolytic and Galvanic cells – reversible & Irreversible cells, conventional representation of electrochemical cells. EMF of cell and its measurement, Weston standard cell, activity and activity coefficients.

Calculation of thermodynamic quantities of cell reaction (▲G, ▲H & K).

Types of reversible electrodes – metal- metal ion gas electrode, metal –insoluble salt-anion and redox electrodes. Electrode reactions, Nernst equations, derivation of cell EMF and single electrode potential. Standard Hydrogen electrode, reference electrodes, standard electrodes potential, sign conventions, electrochemical series and its applications.

Concentration cells with and without transference, liquid junction potential, application of EMF measurement i.e. valency of ions, solubility product activity coefficient, potentiometric titration (acid- base and redox). Determination of pH using Hydrogen electrode, Quinhydrone electrode and glass electrode by potentiometric methods.

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B. Sc. IInd Year (IVth Semester)

Paper XIII (Theory) Organic Chemistry (CH-206)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

1. Infrared (IR) absorption spectroscopy

Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectroscopy in structure elucidation of simple organic compounds.

2. Amines

Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction.

electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.

Section-B

1. Diazonium Salts

Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H, OH, F, Cl, Br, I, NO_2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.

2. Aldehydes and Ketones

Nomenclature and structure of the carbonyl group. Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides, advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate., Physical properties. Comparison of reactivities of aldehydes and ketones. Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol, Perkin and Knoevenagel condensations. Condensation with ammonia and its derivatives. Wittig reaction. Mannich reaction.Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones, Cannizzaro reaction. MPV, Clemmensen, Wolff-Kishner, $LiAlH_4$ and $NaBH_4$ reductions.

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B.Sc. II Year

Paper XIV (Practicals) (CH-207) **Max. Marks: 72+8***

Time: 7 Hrs.
(Spread over two days)

SECTION – I (Inorganic)

1. **Gravimetric Analysis**

Quantitative estimations of, Cu^{2+} as copper thiocyanate and Ni^{2+} as Ni – dimethylglyoxime.

2. **Colorimetry:**

To verify Beer - Lambert law for $KMnO_4/K_2Cr_2O_7$ and determine the concentration of the given $KMnO_4/K_2Cr_2O_7$ solution.

3. Preparations: Preparation of Cuprous chloride, prussion blue from iron fillings, tetraammine cupric sulphate, chrome alum, potassium trioxalatochromate(III).

Section-B (Physical)

1. To determine the CST of phenol – water system.
2. To determine the solubility of benzoic acid at various temperatures and to determine the ▲H of the dissolution process
3. To determine the enthalpy of neutralisation of a weak acid/weak base vs. strong base/strong acid and determine the enthalpy of ionisation of the weak acid/weak base.
4. To determine the enthalpy of solution of solid calcium chloride
5. To study the distribution of iodine between water and CCl_4.

*** Marks of Internal Assessment**

Section-C (Organic)

Systematic identification (detection of extra elements, functional groups, determination of melting point or boiling point and preparation of at least one pure solid derivative) of the following simple mono and bifunctional organic compounds: Naphthalene, anthracene, acenaphthene, benzyl chloride, *p*-dichlorobenzene, *m*-dinitrobenzene, *p*-nitrotoluene, resorcinol , hydroquinone, α-naphthol, β-naphthol, benzophenone, ethyl methyl ketone, benzaldehyde, vanillin, oxalic acid, succinic acid, benzoic acid, salicyclic acid, aspirin, phthalic acid, cinnamic acid, benzamide, urea, acetanilide, benzanilide, aniline hydrochloride, p-toluidine, phenyl salicylate (salol), glucose, fructose, sucrose, *o*-, *m*-, *p*-nitroanilines, thiourea.

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Distribution of marks

1.	Section I	18 marks
2.	Section II	18 marks
3.	Section III	18 marks
4.	Viva-voce	06marks
5.	Lab Record	12 marks

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B. Sc. III Year (Vth Semester)

Paper XV (Theory) Inorganic Chemistry (CH-301)

Max. marks: 33
Time:Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

SECTION–A

1. Metal-ligand Bonding in Transition Metal Complexes

Limitations of valence bond theory, an elementary idea of crystal-field theory, crystal field splitting in octahedral, tetrahedral and square planar complexes, factors affecting the crystal-field parameters.

2. Thermodynamic and Kinetic Aspects of Metal Complexe

A brief outline of thermodynamic stability of metal complexes and factors affecting the stability, substitution reactions of square planar complexes of Pt(II).

SECTION-B

1. Magnetic Properties of Transition Metal Complexe

Types of magnetic behaviour, methods of determining magnetic susceptibility, spin-only formula. L-S coupling, correlation of $_s$ and $_{eff}$ values, orbital contribution to magnetic moments, application of magnetic moment data for 3d-metal complexes.

2. Electron Spectra of Transition Metal Complexes

Types of electronic transitions, selection rules for d-d transitions, spectroscopic ground states, spectrochemical series. Orgel-energy level diagram for d^1 and d^9 states, discussion of the electronic spectrum of $[Ti(H_2O)_6]^{3+}$ complex ion.

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B. Sc. III Year (Vth Semester)

Paper XVI (Theory) Physical Chemistry (CH-302)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

Quantum Mechanics-I

Black-body radiation, Plank's radiation law, photoelectric effect, heat capacity of solids, Compton effect,wave function and significance of , postulates of quantum mechanics, quantum mechanical operator, commutation relations, Hamiltonial operator, Hermitian operator, average value of square of Hermitian as a positive quantity, Role of operators in quantum mechanics, To show quantum mechanically that position and momentum cannot be predicated simultaneously, Determination of wave function & energy of a particle in one dimensional box, Pictorial representation and its significance,

Physical Properties and Molecular Structure

Optical activity, polarization – (clausius – Mossotti equation). Orientation of dipoles in an electric field, dipole moment, included dipole moment, measurement of dipole moment-temperature method and refractivity method, dipole moment and structure of molecules, Magnetic permeability, magnetic susceptibility and its determination. Application of magnetic susceptibility, magnetic properties – paramagnetism, diamagnetism and ferromagnetics.

Section-B

Spectroscopy:

Introduction: Electromagnetic radiation, regions of spectrum, basic features of spectroscopy, statement of Born-oppenheimer approximation, Degrees of freedom.

Rotational Spectrum

Diatomic molecules. Energy levels of rigid rotator (semi-classical principles), selection rules, spectral intensity distribution using population distribution (Maxwell-Boltzmann distribution), determination of bond length, qualitative description of non-rigid rotor, isotope effect.

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Vibrational spectrum

Infrared spectrum: Energy levels of simple harmonic oscillator, selection rules, pure vibrational spectrum, intensity, determination of force constant and qualitative relation of force constant and bond energies, effects of anharmonic motion and isotopic effect on the spectra., idea of vibrational frequencies of different functional groups.

Raman Spectrum:

Concept of polarizibility, pure rotational and pure vibrational Raman spectra of diatomic molecules, selectin rules, Quantum theory of Raman spectra.

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B. Sc. IIIrd Year (Vth Semester)

Paper XVII (Theory) Organic Chemistry (CH-303)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

NMR Spectroscopy

Principle of nuclear magnetic resonance, the PMR spectrum,number of signals, peak areas, equivalent and nonequivalent protons positions of signals and chemical shift,shielding and deshielding of protons, proton counting,splitting of signals and coupling constants, magnetic equivalence of protons.Discussion of PMR spectra of the molecules: ethyl bromide, n-propyl bromide, isopropyl bromide, 1,1-dibromoethane, 1,1,2-tribromoethane, ethanol, acetaldehyde, ethyl acetate, toluene, benzaldehyde and acetophenone..Simple problems on PMR spectroscopy for structure determination of organic compounds.

SECTION – B

Carbohydrates

Classification and nomenclature. Monosaccharides, mechanism of osazone formation, interconversion of glucose and fructose, chain lengthening and chain shortening of aldoses. Configuration of monosaccharides. Erythro and threo diastereomers. Conversion of glucose into mannose. Formation of glycosides, ethers and esters. Determination of ring size of glucose and fructose. Open chain and cyclic structure of D(+)-glucose & D(-) fructose. Mechanism of mutarotation.

Structures of ribose and deoxyribose.

An introduction to disaccharides (maltose, sucrose and lactose) and polysaccharides (starch and cellulose) without involving structure determination.

Organometallic Compounds

Organomagnesium compounds: the Grignard reagents-formation, structure and chemical reactions.
Organozinc compounds: formation and chemical reactions.
Organolithium compounds: formation and chemical reactions.

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B. Sc. III Year (VIth Semester)

Paper XVIII (Theory) Inorganic Chemistry (CH-304)

Max. marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

Section-A

1. Organometallic Chemistry

Definition, nomenclature and classification of organometallic compounds. Preparation, properties, and bonding of alkyls of Li, Al, Hg, and Sn a brief account of metal-ethylenic complexes, mononuclear carbonyls and the nature of bonding in metal carbonyls.

2. Acids and Bases, HSAB Concept

Arrhenius, Bronsted – Lowry, the Lux – Flood, Solvent system and Lewis concepts of acids & bases, relative strength of acids & bases, Concept of Hard and Soft Acids & Bases.

Section—B

1. Bioinorganic Chemistry

Essential and trace elements in biological processes, metalloporphyrins with special reference to haemoglobin and myoglobin. Biological role of alkali and alkaline earth metal ions with special reference to Ca^{2+}. Nitrogen fixation.

2. Silicones and Phosphazenes

Silicones and phosphazenes as examples of inorganic polymers, nature of bonding in triphosphazenes.

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B. Sc. IIInd Year (VIth Semester)

Paper XIX (Theory) Physical Chemistry (CH-305)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

Electronic Spectrum

Concept of potential energy curves for bonding and antibonding molecular orbitals, qualitative description of selection rules and Franck- Condon principle.

Qualitative description of sigma and pie and n molecular orbital (MO) their energy level and respective transitions.

Photochemistry

Interaction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry: Grotthus-Drapper law, Stark-Einstein law (law of photochemical equivalence) Jablonski diagram depiciting various processes occurring in the excited state, qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing), quantum yield, photosensitized reactions-energy transfer processes (simple examples).

Section-B

Solutions Dilute Solutions and Colligative Properties

Ideal and non-ideal solutions, methods of expressing concentrations of solutions, activity and activity coefficient. Dilute solution,Colligative properties, Raolut's law, relative lowering of vapour pressure, molelcular weight determination, Osmosis law of osmotic pressure and its measurement, determination of molecular weight from osmotic pressure. Elevation of boiling point and depression of freezing point, Thermodynamic derivation of relation between molecular weight and elevation in boiling point and depression in freezing point. Experimental methods for determining various colligative properties. Abnormal molar mass, degree of dissociation and association of solutes.

Phase Equillibrium

Statement and meaning of the terms – phase component and degree of freedom, thermodynamic derivation of Gibbs phase rule, phase equilibria of one component system –Example – water and Sulpher systems.

Phase equilibria of two component systems solid-liquid equilibria, simple eutectic

Example Pb-Ag system, desilerisation of lead

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B. Sc. IIIrd Year (VIth Semester)

Paper XX (Theory) Organic Chemistry (CH-306)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

SECTION – A

Organosulphur Compounds

Nomenclature, structural features, Methods of formation and chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine. Synthetic detergents alkyl and aryl sulphonates.

Heterocyclic Compounds

Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine. Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole.

Introduction to condensed five and six- membered heterocycles. Prepration and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis. Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline.

SECTION – B

Organic Synthesis *via* Enolates

Acidity of α-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate: the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate.

Amino Acids, Peptides& Proteins

Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of α-amino acids.

Structure and nomenclature of peptides and proteins. Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid–phase peptide synthesis. Structures of peptides and proteins: Primary & Secondary structure.

Synthetic Polymers

Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization, Ziegler-Natta polymerization and vinyl polymers.

Condensation or step growth polymerization. Polyesters, polyamides, phenol formaldehyde resins, urea formaldehyde resins, epoxy resins and polyurethanes.

Natural and synthetic rubbers.

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B.Sc. III Year

Paper XXI (Practical) (CH-307) **Max. Marks: 72+8***

Time: 7 Hrs.
(Spread over two days)

SECTION – I (Inorganic)

Semimicro qualitative analysis of mixture containing not more than four radicals (including interfering, Combinations and excluding insoluables):

Pb^{2+}, Hg^{2+}, Hg_2^{2+}, Ag^{+}, Bi^{3+}, Cu^{2+}, Cd^{2+}, As^{3+}, Sb^{3+}, Sn^{2+}, Fe^{3+}, Cr^{3+}, Al^{3+}, Co^{2+}, Ni^{2+}, Mn^{2+}, Zn^{2+}, Ba^{2+}, Sr^{2+}, Ca^{2+}, Mg^{2+}, NH_4^{+}, CO_3^{2-}, S^{2-}, SO_3^{2-}, $S_2O_3^{2-}$, NO_2^{-}, CH_3COO^{-}, Cl^{-}, Br^{-}, I^{-}, NO_3^{-}, SO_4^{2-}, $C_2O_4^{2-}$, PO_4^{3-}, BO_3^{3-}

Section-B (Physical)

1. To determine the strength of the given acid solution (mono and dibasic acid) conductometrically.
2. To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically
3. To determine the strength of given acid solution (mono and dibasic acid) potentiometrically.
4. To determine the molecular weight of a non-volatile solute by Rast method.
5. To standardize the given acid solution (mono and dibasic acid) pH metrically.

* **Marks of Internal Assessment**

Section-C (Organic)

1. Laboratory Techniques

(a) Steam distillation (non evaluative)

Naphthalene from its suspension in water

Separation of *o*-and *p*-nitrophenols

(b) Column chromatography (non evaluative)

Separation of fluorescein and methylene blue

Separation of leaf pigments from spinach leaves

2. Thin Layer Chromatography

Determination of R_f values and identification of organic compunds

(a) Separation of green leaf pigments (spinach leaves may be used)

(b) Separation of a mixture of coloured organic compounds using common organic solvents.

3. Synthesis of the following organic compounds:

(a) To prepare o-chlorobenzoic acid from anthranilic acid.
(b) To prepare p-bromoaniline from p-bromoacetanilide.
(c) To prepare m-nitroaniline from m-dinitrobenzene.

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(d) To prepare S-Benzyl-iso-thiouronium chloride from thiourea.

1.	Section I	18 marks
2.	Section II	18 marks
3.	Section III	18 marks
4.	Viva-voce	06 marks
5.	Lab Record	12 marks

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B.Sc. Part-I (Ist Semester)

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A. (Internal Assessment)	Time
I	CH-101	Inorganic Chemistry(Theory)	33 + 4	3 Hrs
II	CH-102	Physical Chemistry(Theory)	33 + 4	3 hrs.
III	CH-103	Organic Chemistry (Theory)	33 + 3	3 hrs

B.Sc. Part-I (IInd Semester)

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A. (Internal Assessment)	Time
IV	CH-104	Inorganic Chemistry (theory)	33 + 4	3 hrs.
V	CH-105	Physical Chemistry (Theory)	33 + 4	3 hrs.
VI	CH-106	Organic Chemistry (theory)	33 + 3	3 hrs.
VII	CH-107	Practicals	90 + 10	7 hrs.

Note: Practical Exams will be held at the end of 2nd Semester

B.Sc. Part-II (IIIrd Semester)

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A.	Time
VIII	CH-201	Inorganic Chemistry (Theory)	33 + 4	3 hrs.
IX	CH-202	Physical Chemistry (theory)	33 + 3	3 hrs.
X	CH-203	Organic Chemistry (theory)	33 + 4	3 hrs.

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B.Sc. Part-II (IVth Semester)

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A. (Internal Assessment)	Time
XI	CH-204	Inorganic Chemistry (theory)	33 + 4	3 hrs.
XII	CH-205	Physical Chemistry (theory)	33 + 3	3 hrs.
XIII	CH-206	Organic Chemistry (theory)	33 + 4	3 hrs.
XIV	CH-207	Practicals	90 + 10	7 hrs.

Note: Practical Exams will be held at the end of 4th Semester

B.Sc. III (Vth) Semester

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A. (Internal Assessment)	Time
XV	CH-301	Inorganic Chemistry (theory)	33 + 3	3 hrs.
XVI	CH-302	Physical Chemistry (theory)	33 + 4	3 hrs.
XVII	CH-303	Organic Chemistry (theory)	33 + 4	3 hrs.

B.Sc. III (VIth Semester)

Paper No.	Code No.	Nomenclature	Max. Marks Written + I.A. (Internal Assessment)	Time
XVIII	CH-304	Inorganic Chemistry (theory)	33 + 3	3 hrs.
XIX	CH-305	Physical Chemistry (theory)	33 + 4	3 hrs.
XX	CH-306	Organic Chemistry (theory)	33 + 4	3 hrs.
XXI	CH-307	Practicals	90 + 10	7 hrs.

Note: Practical Exams will be held at the end of 6th Semester

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B. Sc. Ist Year (Ist Semester)

Paper I (Theory) Inorganic Chemistry (CH-101)

Max. Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

1. Atomic Structure

Idea of de Broglie matter waves, Heisenberg uncertainty principle, atomic orbitals, , quantum numbers, radial and angular wave functions and probability distribution curves, shapes of s, p, d orbitals. Aufbau and Pauli exclusion principles, Hund's multiplicity rule. Electronic configurations of the elements, effective nuclear charge, Slater's rules.

2.Periodic Properties

Atomic and ionic radii, ionization energy, electron affinity and electronegativity – definition, methods of determination or evaluation, trends in periodic table (in s & p block elements).

SECTION–B

1. Covalent Bond

Valence bond theory and its limitations, directional characteristics of covalent bond, various types of hybridization and shapes of simple inorganic molecules and ions (BeF_2, BF_3, CH_4, PF_5, SF_6, IF_7 SO_4^{2-}, ClO_4^-)Valence shell electron pair repulsion (VSEPR) theory to NH_3, H_3O^+, SF_4, CIF_3, ICI_2^- and H_2O. MO theoryof heteronuclear (CO and NO) diatomic.

molecules, , bond strength and bond energy, percentage ionic character from dipole moment and electronegativity difference.

Ionic Solids

Ionic structures (NaCl,CsCl, ZnS(Zinc Blende), CaF_2) radius ratio effect and coordination number, limitation of radius ratio rule, lattice defects, semiconductors, lattice energy (methamtical derivation excluded) and Born-Haber cycle, solvation energy and its relation with solubility of ionic solids, polarizing power and polarisability of ions, Fajan's rule.

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B. Sc. Ist Year (Ist Semester)

Paper II (Theory) Physical Chemistry (CH-102)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

SECTION – A

Gaseous States

Maxwell's distribution of velocities and energies (derivation excluded) Calculation of root mean square velocity, average velocity and most probable velocity. Collision diameter, collision number, collision frequency and mean free path. Deviation of Real gases from ideal behaviour. Derivation of Vander Waal's Equation of State, its application in the calculation of Boyle's temperature (compression factor) Explanation of behaviour of real gases using Vander Waal's equation.

Critical Phenomenon: Critical temperature, Critical pressure, critical volume and their determination. PV isotherms of real gases, continuity of states, the isotherms of Vander Waal's equation, relationship between critical constants and Vander Waal"s constants. Critical compressibility factor. The Law of corresponding states. Lequifaction of gases.

Section-B

Liquid States

Structure of liquids. Properties of liquids – surface tension, viscosity vapour pressure and optical rotations and their determination.

Solid State

Classification of solids, Laws of crystallography – (i) Law of constancy of interfacial angles (ii) Law of rationality of indices (iii) Law of symmetry. Symmetry elements of crystals. Definition of unit cell & space lattice. Bravais lattices, crystal system. X-ray diffraction by crystals. Derivation of Bragg equation. Determination of crystal structure of NaCl, KCl.

Liquid crystals: Difference between solids, liquids and liquid crystals,types of liquid crystals. Applications of liquid crystals.

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B. Sc. Ist Year (Ist Semester)

Paper III (Theory) Organic Chemistry(CH-103)

Max. Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

1.Structure and Bonding

Localized and delocalized chemical bond, van der Waals interactions, resonance: conditions, resonance effect and its applications, hyperconjugation, inductive effect, Electromeric effect & their comparison.

2.Stereochemistry of Organic Compounds

Concept of isomerism. Types of isomerism.
Optical isomerism — elements of symmetry, molecular chirality, enantiomers, stereogenic centre, optical activity, properties of enantiomers, chiral and achiral molecules with two stereogenic centres, diastereomers, threo and erythro diastereomers, meso compounds, resolution of enantiomers, inversion, retention and racemization.

Relative and absolute configuration, sequence rules, R & S systems of nomenclature.

Geometric isomerism — determination of configuration of geometric isomers. E & Z system of nomenclature,

Conformational isomerism — conformational analysis of ethane and n-butane, conformations of cyclohexane, axial and equatorial bonds,. Newman projection and Sawhorse formulae, Difference between configuration and conformation.

Section-B

1.Mechanism of Organic Reactions

Curved arrow notation, drawing electron movements with arrows, half-headed and double-headed arrows, homolytic and heterolytic bond breaking. Types of reagents – electrophiles and nucleophiles. Types of organic reactions. Energy considerations.
Reactive intermediates — carbocations, carbanions, free radicals, carbenes,(formation, structure & stability).

2. Alkanes and Cycloalkanes

IUPAC nomenclature of branched and unbranched alkanes, the alkyl group, classification of carbon atoms in alkanes. Isomerism in alkanes, sources, methods of formation (with special reference to Wurtz reaction, Kolbe reaction, Corey-House reaction and decarboxylation of carboxylic acids), physical properties.

Mechanism of free radical halogenation of alkanes: reactivity and selectivity.

Cycloalkanes — nomenclature, synthesis of cycloalkanes and their derivatives –photochemical (2+2) cycloaddition reactions, , dehalogenation of α,ω-dihalides, , pyrolysis of calcium or barium salts of dicarboxylic acids, Baeyer's strain theory and its limitations., theory of strainless rings.

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B. Sc. Ist Year (IInd Semester)

Paper IV (Theory) Inorganic Chemistry (CH-104) **Max. Marks: 33**

Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

1.Hydrogen Bonding & Vander Waals Forces

Hydrogen Bonding – Definition, Types, effects of hydrogen bonding on properties of substances, application

Brief discussion of various types of Vander Waals Forces

2. **Metallic Bond and Semiconductors**

Metallic Bond- Brief introduction to metallic bond, band theory of metallic bond

Semiconductors- Introduction, types and applications.

3. **s-Block Elements**

Comparative study of the elements including , diagonal relationships, salient features of hydrides (methods of preparation excluded), solvation and complexation tendencies including their function in biosystems.

Chemistry of Noble Gases

Chemical properties of the noble gases with emphasis on their low chemical reactivity, chemistry of xenon, structure and bonding of fluorides, oxides & oxyfluorides of xenon.

SECTION – B

p-Block Elements

Emphasis on comparative study of properties of p-block elements (including diagonal relationship and excluding methods of preparation).

Boron family (13^{th} gp)

Diborane – properties and structure (as an example of electron – deficient compound and multicentre bonding), Borazene – chemical properties and structure Trihalides of Boron – Trends in fewis acid character structure of aluminium (III) chloride.

Carbon Family (14^{th} group)

Catenation, pπ– dπ bonding (an idea), carbides, fluorocarbons, silicates (structural aspects), silicons – general methods of preparations, properties and uses.

Nitrogen Family (15^{th} group)

Oxides – structures of oxides of N,P. oxyacids – structure and relative acid strengths of oxyacids of Nitrogen and phosphorus. Structure of white, yellow and red phosphorus.

Oxygen Family (16^{th} group)

Oxyacids of sulphur – structures and acidic strength H_2O_2 – structure, properties and uses.

Halogen Family (17^{th} group)

Basic properties of halogen, interhalogens types properties, hydro and oxyacids of chlorine – structure and comparison of acid strength.

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B. Sc. Ist Year (IInd Semester)

Paper V (Theory) Physical Chemistry (CH-105)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

SECTION – A

Kinetics

Rate of reaction, rate equation, factors influencing the rate of a reaction – concentration, temperature, pressure, solvent, light, catalyst. Order of a reaction, integrated rate expression for zero order, first order, second and third order reaction. Half life period of a reaction. Methods of determination of order of reaction, effect of temperature on the rate of reaction – Arrhenius equation. Theories of reaction rate – Simple collision theory for unimolecular and bimolecular collision. Transition state theory of Bimolecular reactions.

Section-B

Electrochemistry

Electrolytic conduction, factors affecting electrolytic conduction, specific, conductance, molar conductance,equivalent conductance and relation among them, their vartion with concentration. Arrhenius theory of ionization, Ostwald's Dilution Law. Debye- Huckel – Onsager's equation for strong electrolytes (elementary treatment only) Transport number, definition and determination by Hittorfs methods, (numerical included), Kohlarausch's Law, calculation of molar ionic conductance and effect of viscosity temperature & pressure on it. Application of Kohlarausch's Law in calculation of conductance of weak electrolytes at infinite diloution. Applications of conductivity measurements: determination of degree of dissociation, determination of K_a of acids determination of solubility product of sparingly soluble salts, conductometric titrations. Definition of pH and pK_a, Buffer solution, Buffer action, Henderson – Hazel equation, Buffer mechanism of buffer action.

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B. Sc. Ist Year (IInd Semester)

Paper VI (Theory) Organic Chemistry (CH-106)

Max. Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

1.Alkenes

Nomenclature of alkenes, , mechanisms of dehydration of alcohols and dehydrohalogenation of alkyl halides,. The Saytzeff rule, Hofmann elimination, physical properties and relative stabilities of alkenes.

Chemical reactions of alkenes — mechanisms involved in hydrogenation, electrophilic and free radical additions, Markownikoff's rule, hydroboration–oxidation, oxymercuration-reduction, ozonolysis, hydration, hydroxylation and oxidation with $KMnO_4$, ,

2.Arenes and Aromaticity

Nomenclature of benzene derivatives:. Aromatic nucleus and side chain.

Aromaticity: the Huckel rule, aromatic ions, annulenes up to 10 carbon atoms, aromatic, anti - aromatic and non - aromatic compounds.

Aromatic electrophilic substitution — general pattern of the mechanism, mechansim of nitration, halogenation, sulphonation, and Friedel-Crafts reaction. Energy profile diagrams. Activating , deactivating substituents and orientation.

Section-B

Dienes and Alkynes

Nomenclature and classification of dienes: isolated, conjugated and cumulated dienes. Structure of butadiene,. Chemical reactions — 1,2 and 1,4 additions (Electrophilic & free radical mechanism), Diels-Alder reaction, Nomenclature, structure and bonding in alkynes. Methods of formation. Chemical reactions of alkynes, acidity of alkynes. Mechanism of electrophilic and nucleophilic addition reactions, hydroboration-oxidation of alkynes,

Alkyl and Aryl Halides

Nomenclature and classes of alkyl halides, methods of formation, chemical reactions. Mechanisms and stereochemistry of nucleophilic substitution reactions of alkyl halides, S_N2 and S_N1 reactions with energy profile diagrams.

Methods of formation and reactions of aryl halides, The addition-elimination and the elimination-addition mechanisms of nucleophilic aromatic substitution reactions.

Relative reactivities of alkyl halides vs allyl, vinyl and aryl halides.

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B.Sc. I Year

Paper VII (Practicals) (CH-107) **Max. Marks: 90**

Time: 7 Hrs.

Section-A (Inorganic)

Volumetric Analysis

1. **Redox titrations**: Determination of Fe^{2+} , $C_2O_4^{2-}$ (using $KMnO_4$, $K_2Cr_2O_7$)
2. **Iodometic titrations:** Determination of Cu^{2+} (using standard hypo solution).
3. **Complexometric titrations:** Determination of Mg^{2+} , Zn^{2+} by EDTA.

Paper Chromatography

Qualitative Analysis of the any one of the following Inorganic cations and anions by paper chromatography (Pb^{2+} , Cu^{2+} , Ca^{2+} , Ni^{2+} , Cl^- , Br^- , I^- and PO_4^{3-} and NO_3^-).

Section-B (Physical)

1. To determine the specific reaction rate of the hydrolysis of methyl acetate/ethyl acetatecatalyzed by hydrogen ions at room temperature.
2. To prepare arsenious sulphide sol and compare the precipitating power of mono-, bi – and trivalent anions.
3. To determine the surface tension of a given liquid by drop number method.
4. To determine the viscosity of a given liquid**.**
5. To determine the specific refractivity of a given liquid

SECTION – C (Organic)

1. Preparation and purification through crystallization or distillation and ascertaining their purity through melting point or boiling point
   - (i) Iodoform from ethanol (or acetone)
   - *(ii)* *m*-Dinitrobenzne from nitrobenzene (use 1:2 conc. HNO_3-H_2SO_4 mixture if fuming HNO_3 is not available)
   - iii) p-Bromoacetanilide from acetanilide
   - iv) Dibenzalacetone from acetone and benzaldehyde
   - v) Aspirin from salicylic acid
2. To study the process of) sublimation of camphor and phthalic acid,

Distribution of marks

1.	Section I	22 marks
2.	Section II	22 marks
3.	Section III	24 marks
4.	Viva-voce	07 marks
5.	Lab Record	15 marks

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B. Sc. II Year (IIIrd Semester)

Paper VIII (Theory) Inorganic Chemistry (CH-201)

Max. Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

Section-A

Chemistry of d-Block Elements

Definition of transition elements, position in the periodic table, General characteristics & properites of d-block elements, Comparison of properties of 3d elements with 4d & 5d elements with reference only to ionic radii, oxidation state, magnetic and spectral properties and stereochemistry. Structures & properties of some compounds of transition elements – TiO_2, $VOCl_2$, $FeCl_3$, $CuCl_2$ and Ni $(CO)_4$

Section-B

1. Coordination Compounds

Werner's coordination theory, effective atomic number concept, chelates, nomenclature of coordination compounds, isomerism in coordination compounds, valence bond theory of transition metal complexes

2. Non-aqueous Solvents

Physical properties of a solvent, types of solvents and their general characteristics, reactions in non-aqueous solvents with reference to liquid NH_3 and liquid SO_2

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B. Sc. IInd Year (IIIrd Semester)

Paper IX (Theory) Physical Chemistry (CH-202)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

SECTION – A

Thermodynamics

Definition of thermodynamic terms: system,surrounding etc. Types of systems, intensive and extensive properties. State and path functions and their differentials. Thermodynamic process. Concept of heat and work.

Zeroth Law of thermodynamics, First law of thermodynamics: statement, definition of internal energy and enthalpy. Heat capacity, heat capacities at constant volume and pressure and their relationship. Joule's law – Joule – Thomson coefficient for ideal gass and real gas: and inversion temperature. Calculation of w.q. dU & dH for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process, Temperature dependence of enthalpy, Kirchoffs equation.

Bond energies and applications of bond energies.

Section-B

Chemical Equilibrium

Equilibrium constant and free energy, concept of chemical potential, Thermodynamic derivation of law of chemical equilibrium. Temperature dependence of equilibrium constant; Van't Hoff reaction isochore, Van't Hoff reaction isotherm.

Le-Chatetier's principle and its applications Clapeyron equation and clausius – clapeyrou equation its applications.

Distributioln Law

Nernst distribution law – its thermodynamic derivation, Modification of distribution law when solute undergoes dissociation, association and chemical combination. Applications of distribution law: (i) Determination of degree of hydrolysis and hydrolysis constant of aniline hydrochloride. (ii) Determination of equilibrium constant of potassium tri-iodide complex and process of extraction.

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B. Sc. IInd Year (IIIrd Semester)

Paper X (Theory) Organic Chemistry (CH-203)

Max. Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

1.Alcohols

Monohydric alcohols — nomenclature, methods of formation by reduction of aldehydes, ketones, carboxylic acids and esters. Hydrogen bonding. Acidic nature. Reactions of alcohols.
Dihydric alcohols — nomenclature, methods of formation, chemical reactions of vicinal glycols, oxidative cleavage [$Pb(OAc)_4$ and HIO_4] and pinacol-pinacolone rearrangement.

2.Phenols

Nomenclature, structure and bonding. Preparation of phenols, physical properties and acidic character. Comparative acidic strengths of alcohols and phenols, resonance stabilization of phenoxide ion. Reactions of phenols — electrophilic aromatic substitution, Mechanisms of Fries rearrangement, Claisen rearrangement, Reimer-Tiemann reaction, Kolbe's reaction and Schotten and Baumann reactions.

3.Epoxides

Synthesis of epoxides. Acid and base-catalyzed ring opening of epoxides, orientation of epoxide ring opening, reactions of Grignard and organolithium reagents with epoxides.

Section-B

1. Ultraviolet (UV) absorption spectroscopy

Absorption laws (Beer-Lambert law), molar absorptivity, presentation and analysis of UV spectra, types of electronic transitions, effect of conjugation. Concept of chromophore and auxochrome. Bathochromic, hypsochromic, hyperchromic and hypochromic shifts. UV spectra of conjugated enes and enones,Woodward-Fieser rules, calculation of λ_{max} of simple conjugated dienes and α,β-unsaturated ketones. Applications of UV Spectroscopy in structure elucidation of simple organic compounds.

2.Carboxylic Acids & Acid Derivatives

Nomenclature of Carboxylic acids, structure and bonding, physical properties, acidity of carboxylic acids, effects of substituents on acid strength. Preparation of carboxylic acids. Reactions of carboxylic acids. Hell-Volhard-Zelinsky reaction. Reduction of carboxylic acids. Mechanism of decarboxylation.

Structure , nomenclature and preparation of acid chlorides, esters, amides and acid anhydrides. Relative stability of acyl derivatives. Physical properties, interconversion of acid derivatives by nucleophilic acyl substitution.

Mechanisms of esterification and hydrolysis (acidic and basic).

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B. Sc. II Year (IVth Semester)

Paper XI (Theory) Inorganic Chemistry (CH-204)

Max. Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

Section-A

Chemistry of f – block elements

Lanthanides

Electronic structure, oxidation states and ionic radii and lanthanide contraction, complex formation, occurrence and isolation, lanthanide compounds.

Actinides

General features and chemistry of actinides, chemistry of separation of Np, Pu and Am from U,

Comparison of properties of Lanthanides and Actinides and with transition elements.

Section-B

Theory of Qualitative and Quantitative Inorganic Analysis

Chemistry of analysis of various groups of basic and acidic radicals, Chemistry of identification of acid radicals in typical combinations, Chemistry of interference of acid radicals including their removal in the analysis of basic radicals. Theory of precipitation, co-precipitation, Post- precipitation, purification of precipitates.

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B. Sc. IInd Year (IVth Semester)

Paper XII (Theory) Physical Chemistry (CH-205)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

Section-A

Thermodynamics

Second law of thermodynamics, need for the law, different statements of the law, Carnot's cycles and its efficiency, Carnot's theorm, Thermodynamics scale of temperature. Concept of entropy – entropy as a state function, entropy as a function of V & T, entropy as a function of P & T, entropy change in physical change, entropy as a criteria of spontaneity and equilibrium. Entropy change in ideal gases and mixing of gases.

Third law of thermodynamics: Nernst heat theorem, statement of concept of residual entropy, evaluation of absolute entropy from heat capacity data. Gibbs and Helmholtz functions; Gibbs function (G) and Helmholtz function (A) as thermodynamic quantities, A & G as criteria for thermodynamic equilibrium and spontaneity, their advantage over entropy change. Variation of G and A with P, V and T.

Section-B

Electrochemistry

Electrolytic and Galvanic cells – reversible & Irreversible cells, conventional representation of electrochemical cells. EMF of cell and its measurement, Weston standard cell, activity and activity coefficients. Calculation of thermodynamic quantities of cell reaction (▲G, ▲H & K).

Types of reversible electrodes – metal- metal ion gas electrode, metal –insoluble salt- anion and redox electrodes. Electrode reactions, Nernst equations, derivation of cell EMF and single electrode potential. Standard Hydrogen electrode, reference electrodes, standard electrodes potential, sign conventions, electrochemical series and its applications.

Concentration cells with and without transference, liquid junction potential, application of EMF measurement i.e. valency of ions, solubility product activity coefficient, potentiometric titration (acid- base and redox). Determination of pH using Hydrogen electrode, Quinhydrone electrode and glass electrode by potentiometric methods.

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B. Sc. IInd Year (IVth Semester)

Paper XIII (Theory) Organic Chemistry (CH-206)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

1. Infrared (IR) absorption spectroscopy

Molecular vibrations, Hooke's law, selection rules, intensity and position of IR bands, measurement of IR spectrum, fingerprint region, characteristic absorptions of various functional groups and interpretation of IR spectra of simple organic compounds. Applications of IR spectroscopy in structure elucidation of simple organic compounds.

2. Amines

Structure and nomenclature of amines, physical properties. Separation of a mixture of primary, secondary and tertiary amines. Structural features affecting basicity of amines. Preparation of alkyl and aryl amines (reduction of nitro compounds, nitriles, reductive amination of aldehydic and ketonic compounds. Gabriel-phthalimide reaction, Hofmann bromamide reaction.

electrophilic aromatic substitution in aryl amines, reactions of amines with nitrous acid.

Section-B

1. Diazonium Salts

Mechanism of diazotisation, structure of benzene diazonium chloride, Replacement of diazo group by H, OH, F, Cl, Br, I, NO_2 and CN groups, reduction of diazonium salts to hyrazines, coupling reaction and its synthetic application.

2. Aldehydes and Ketones

Nomenclature and structure of the carbonyl group. Synthesis of aldehydes and ketones with particular reference to the synthesis of aldehydes from acid chlorides, advantage of oxidation of alcohols with chromium trioxide (Sarett reagent) pyridinium chlorochromate (PCC) and pyridinium dichromate., Physical properties. Comparison of reactivities of aldehydes and ketones. Mechanism of nucleophilic additions to carbonyl group with particular emphasis on benzoin, aldol, Perkin and Knoevenagel condensations. Condensation with ammonia and its derivatives. Wittig reaction. Mannich reaction.Oxidation of aldehydes, Baeyer–Villiger oxidation of ketones, Cannizzaro reaction. MPV, Clemmensen, Wolff-Kishner, $LiAlH_4$ and $NaBH_4$ reductions.

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B.Sc. II Year

Paper XIV (Practicals) (CH-207) **Max. Marks: 90**

Time: 7 Hrs.
(Spread over two days)

SECTION – I (Inorganic)

1**. Gravimetric Analysis**

Quantitative estimations of, Cu^{2+} as copper thiocyanate and Ni^{2+} as Ni – dimethylglyoxime.

2**. Colorimetry:**

To verify Beer - Lambert law for $KMnO_4/K_2Cr_2O_7$ and determine the concentration of the given $KMnO_4/K_2Cr_2O_7$ solution.

3. Preparations: Preparation of Cuprous chloride, prussion blue from iron fillings, tetraammine cupric sulphate, chrome alum, potassium trioxalatochromate(III).

Section-B (Physical)

1. To determine the CST of phenol – water system.
2. To determine the solubility of benzoic acid at various temperatures and to determine the ▲H of the dissolution process
3. To determine the enthalpy of neutralisation of a weak acid/weak base vs. strong base/strong acid and determine the enthalpy of ionisation of the weak acid/weak base.
4. To determine the enthalpy of solution of solid calcium chloride
5. .To study the distribution of iodine between water and CCl_4.

Section-C (Organic)

Systematic identification (detection of extra elements, functional groups, determination of melting point or boiling point and preparation of at least one pure solid derivative) of the following simple mono and bifunctional organic compounds: Naphthalene, anthracene, acenaphthene, benzyl chloride, *p*-dichlorobenzene, *m*-dinitrobenzene, *p*-nitrotoluene, resorcinol , hydroquinone, α-naphthol, β-naphthol, benzophenone, ethyl methyl ketone, benzaldehyde, vanillin, oxalic acid, succinic acid, benzoic acid, salicyclic acid, aspirin, phthalic acid, cinnamic acid, benzamide, urea, acetanilide, benzanilide, aniline hydrochloride, p-toluidine, phenyl salicylate (salol), glucose, fructose, sucrose, *o*-, *m*-, *p*-nitroanilines, thiourea.

Distribution of marks

1.	Section I	22 marks
2.	Section II	22 marks
3.	Section III	24 marks
4.	Viva-voce	07marks
5.	Lab Record	15 marks

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B. Sc. III Year (Vth Semester)

Paper XV (Theory) Inorganic Chemistry (CH-301) **Max. marks: 33**

Time:Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

SECTION–A

1. Metal-ligand Bonding in Transition Metal Complexes

Limitations of valence bond theory, an elementary idea of crystal-field theory, crystal field splitting in octahedral, tetrahedral and square planar complexes, factors affecting the crystal-field parameters.

2. Thermodynamic and Kinetic Aspects of Metal Complexe

A brief outline of thermodynamic stability of metal complexes and factors affecting the stability, substitution reactions of square planar complexes of Pt(II).

SECTION-B

1. Magnetic Properties of Transition Metal Complexe

Types of magnetic behaviour, methods of determining magnetic susceptibility, spin-only formula. L-S coupling, correlation of $_s$ and $_{eff}$ values, orbital contribution to magnetic moments, application of magnetic moment data for 3d-metal complexes.

2. Electron Spectra of Transition Metal Complexes

Types of electronic transitions, selection rules for d-d transitions, spectroscopic ground states, spectrochemical series. Orgel-energy level diagram for d^1 and d^9 states, discussion of the electronic spectrum of $[Ti(H_2O)_6]^{3+}$ complex ion.

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B. Sc. III Year (Vth Semester)

Paper XVI (Theory) Physical Chemistry (CH-302)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

Quantum Mechanics-I

Black-body radiation, Plank's radiation law, photoelectric effect, heat capacity of solids, Compton effect,wave function and significance of , postulates of quantum mechanics, quantum mechanical operator, commutation relations, Hamiltonial operator, Hermitian operator, average value of square of Hermitian as a positive quantity, Role of operators in quantum mechanics, To show quantum mechanically that position and momentum cannot be predicated simultaneously, Determination of wave function & energy of a particle in one dimensional box, Pictorial representation and its significance,

Physical Properties and Molecular Structure

Optical activity, polarization – (clausius – Mossotti equation). Orientation of dipoles in an electric field, dipole moment, included dipole moment, measurement of dipole moment-temperature method and refractivity method, dipole moment and structure of molecules, Magnetic permeability, magnetic susceptibility and its determination. Application of magnetic susceptibility, magnetic properties – paramagnetism, diamagnetism and ferromagnetics.

Section-B

Spectroscopy:

Introduction: Electromagnetic radiation, regions of spectrum, basic features of spectroscopy, statement of Born-oppenheimer approximation, Degrees of freedom.

Rotational Spectrum

Diatomic molecules. Energy levels of rigid rotator (semi-classical principles), selection rules, spectral intensity distribution using population distribution (Maxwell-Boltzmann distribution), determination of bond length, qualitative description of non-rigid rotor, isotope effect.

Vibrational spectrum

Infrared spectrum: Energy levels of simple harmonic oscillator, selection rules, pure vibrational spectrum, intensity, determination of force constant and qualitative relation of force constant and bond energies, effects of anharmonic motion and isotopic effect on the spectra., idea of vibrational frequencies of different functional groups.

Raman Spectrum:

Concept of polarizibility, pure rotational and pure vibrational Raman spectra of diatomic molecules, selectin rules, Quantum theory of Raman spectra.

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B. Sc. IIIrd Year (Vth Semester)

Paper XVII (Theory) Organic Chemistry (CH-303)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

NMR Spectroscopy

Principle of nuclear magnetic resonance, the PMR spectrum,number of signals, peak areas, equivalent and nonequivalent protons positions of signals and chemical shift,shielding and deshielding of protons, proton counting,splitting of signals and coupling constants, magnetic equivalence of protons.Discussion of PMR spectra of the molecules: ethyl bromide, n-propyl bromide, isopropyl bromide, 1,1-dibromoethane, 1,1,2-tribromoethane, ethanol, acetaldehyde, ethyl acetate, toluene, benzaldehyde and acetophenone..Simple problems on PMR spectroscopy for structure determination of organic compounds.

SECTION – B

Carbohydrates

Classification and nomenclature. Monosaccharides, mechanism of osazone formation, interconversion of glucose and fructose, chain lengthening and chain shortening of aldoses. Configuration of monosaccharides. Erythro and threo diastereomers. Conversion of glucose into mannose. Formation of glycosides, ethers and esters. Determination of ring size of glucose and fructose. Open chain and cyclic structure of D(+)-glucose & D(-) fructose. Mechanism of mutarotation.

Structures of ribose and deoxyribose.

An introduction to disaccharides (maltose, sucrose and lactose) and polysaccharides (starch and cellulose) without involving structure determination.

Organometallic Compounds

Organomagnesium compounds: the Grignard reagents-formation, structure and chemical reactions.
Organozinc compounds: formation and chemical reactions.
Organolithium compounds: formation and chemical reactions.

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B. Sc. III Year (VIth Semester)

Paper XVIII (Theory) Inorganic Chemistry (CH-304)

Max. marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

Section-A

1. Organometallic Chemistry

Definition, nomenclature and classification of organometallic compounds. Preparation, properties, and bonding of alkyls of Li, Al, Hg, and Sn a brief account of metal-ethylenic complexes, mononuclear carbonyls and the nature of bonding in metal carbonyls.

2. Acids and Bases, HSAB Concept

Arrhenius, Bronsted – Lowry, the Lux – Flood, Solvent system and Lewis concepts of acids & bases, relative strength of acids & bases, Concept of Hard and Soft Acids & Bases.

Section—B

1. Bioinorganic Chemistry

Essential and trace elements in biological processes, metalloporphyrins with special reference to haemoglobin and myoglobin. Biological role of alkali and alkaline earth metal ions with special reference to Ca^{2+}. Nitrogen fixation.

2. Silicones and Phosphazenes

Silicones and phosphazenes as examples of inorganic polymers, nature of bonding in triphosphazenes.

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B. Sc. IIInd Year (VIth Semester)

Paper XIX (Theory) Physical Chemistry (CH-305) **Marks: 33**

Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type

Section-A

Electronic Spectrum

Concept of potential energy curves for bonding and antibonding molecular orbitals, qualitative description of selection rules and Franck- Condon principle.

Qualitative description of sigma and pie and n molecular orbital (MO) their energy level and respective transitions.

Photochemistry

Interaction of radiation with matter, difference between thermal and photochemical processes. Laws of photochemistry: Grotthus-Drapper law, Stark-Einstein law (law of photochemical equivalence) Jablonski diagram depiciting various processes occurring in the excited state, qualitative description of fluorescence, phosphorescence, non-radiative processes (internal conversion, intersystem crossing), quantum yield, photosensitized reactions-energy transfer processes (simple examples).

Section-B

Solutions Dilute Solutions and Colligative Properties

Ideal and non-ideal solutions, methods of expressing concentrations of solutions, activity and activity coefficient. Dilute solution,Colligative properties, Raolut's law, relative lowering of vapour pressure, molelcular weight determination, Osmosis law of osmotic pressure and its measurement, determination of molecular weight from osmotic pressure. Elevation of boiling point and depression of freezing point, Thermodynamic derivation of relation between molecular weight and elevation in boiling point and depression in freezing point. Experimental methods for determining various colligative properties. Abnormal molar mass, degree of dissociation and association of solutes.

Phase Equillibrium

Statement and meaning of the terms – phase component and degree of freedom, thermodynamic derivation of Gibbs phase rule, phase equilibria of one component system –Example – water and Sulpher systems.

Phase equilibria of two component systems solid-liquid equilibria, simple eutectic

Example Pb-Ag system, desilerisation of lead

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B. Sc. IIIrd Year (VIth Semester)

Paper XX (Theory) Organic Chemistry (CH-306)

Marks: 33
Time: 3 Hrs.

Note: Eight questions will be set, four questions from each section. The candidate will be required to attempt five questions in all, selecting atleast two questions from each section. As far as possible questions will be short answer type and not essay type.

SECTION – A

Organosulphur Compounds

Nomenclature, structural features, Methods of formation and chemical reactions of thiols, thioethers, sulphonic acids, sulphonamides and sulphaguanidine. Synthetic detergents alkyl and aryl sulphonates.

Heterocyclic Compounds

Introduction: Molecular orbital picture and aromatic characteristics of pyrrole, furan, thiophene and pyridine. Methods of synthesis and chemical reactions with particular emphasis on the mechanism of electrophilic substitution. Mechanism of nucleophilic substitution reactions in pyridine derivatives. Comparison of basicity of pyridine, piperidine and pyrrole.
Introduction to condensed five and six- membered heterocycles. Prepration and reactions of indole, quinoline and isoquinoline with special reference to Fisher indole synthesis, Skraup synthesis and Bischler-Napieralski synthesis. Mechanism of electrophilic substitution reactions of, quinoline and isoquinoline.

SECTION – B

Organic Synthesis *via* Enolates

Acidity of α-hydrogens, alkylation of diethyl malonate and ethyl acetoacetate. Synthesis of ethyl acetoacetate: the Claisen condensation. Keto-enol tautomerism of ethyl acetoacetate.

Amino Acids, Peptides& Proteins

Classification, of amino acids. Acid-base behavior, isoelectric point and electrophoresis. Preparation of α-amino acids.

Structure and nomenclature of peptides and proteins. Classification of proteins. Peptide structure determination, end group analysis, selective hydrolysis of peptides. Classical peptide synthesis, solid–phase peptide synthesis. Structures of peptides and proteins: Primary & Secondary structure.

Synthetic Polymers

Addition or chain-growth polymerization. Free radical vinyl polymerization, ionic vinyl polymerization, Ziegler-Natta polymerization and vinyl polymers.

Condensation or step growth polymerization. Polyesters, polyamides, phenol formaldehyde resins, urea formaldehyde resins, epoxy resins and polyurethanes.

Natural and synthetic rubbers.

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B.Sc. III Year

Paper XXI (Practical) (CH-307) **Max. Marks: 90**

Time: 7 Hrs.
(Spread over two days)

SECTION – I (Inorganic)

Semimicro qualitative analysis of mixture containing not more than four radicals (including interfering, Combinations and excluding insoluables):

Pb^{2+}, Hg^{2+}, Hg_2^{2+}, Ag^{+}, Bi^{3+}, Cu^{2+}, Cd^{2+}, As^{3+}, Sb^{3+}, Sn^{2+}, Fe^{3+}, Cr^{3+}, Al^{3+}, Co^{2+}, Ni^{2+}, Mn^{2+}, Zn^{2+}, Ba^{2+}, Sr^{2+}, Ca^{2+}, Mg^{2+}, NH_4^{+}, CO_3^{2-}, S^{2-}, SO_3^{2-}, $S_2O_3^{2-}$, NO_2^{-}, CH_3COO^{-}, Cl^{-}, Br^{-}, I^{-}, NO_3^{-}, SO_4^{2-}, $C_2O_4^{2-}$, PO_4^{3-}, BO_3^{3-}

Section-B (Physical)

1. To determine the strength of the given acid solution (mono and dibasic acid) conductometrically.
2. To determine the solubility and solubility product of a sparingly soluble electrolyte conductometrically
3. To determine the strength of given acid solution (mono and dibasic acid) potentiometrically.
4. To determine the molecular weight of a non-volatile solute by Rast method.
5. To standardize the given acid solution (mono and dibasic acid) pH metrically.

Section-C (Organic)

1. Laboratory Techniques

(a) Steam distillation (non evaluative)
Naphthalene from its suspension in water
Separation of *o*-and *p*-nitrophenols

(b) Column chromatography (non evaluative)
Separation of fluorescein and methylene blue
Separation of leaf pigments from spinach leaves

2. Thin Layer Chromatography
Determination of R_f values and identification of organic compunds
(b) Separation of green leaf pigments (spinach leaves may be used)
(b) Separation of a mixture of coloured organic compounds using common organic solvents.

3. Synthesis of the following organic compounds:
(a) To prepare o-chlorobenzoic acid from anthranilic acid.
(b) To prepare p-bromoaniline from p-bromoacetanilide.
(c) To prepare m-nitroaniline from m-dinitrobenzene.
(d) To prepare S-Benzyl-iso-thiouronium chloride from thiourea.

1.	Section I	22 marks
2.	Section II	22 marks
3.	Section III	24 marks
4.	Viva-voce	07 marks
5.	Lab Record	15 marks

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SCHEME OF EXAMINATION FOR MASTER OF PERFORMING ARTS (5-YEAR INTEGRATED COURSE) PART-III (To take effect from 2011-12)

Paper No.	Name of Paper	Max. Marks	Time Allowed
I.	English (Complusory)		
	Paper – A	45 05 (Int. Assessment)	3 Hours
	Paper – B	45 05 (Int. Assessment)	3 Hours
II.	Hindi (Compulsory)	90 10 (Int. Assessment)	3 Hours
III & IV.	Any two of the following:		
	(a) Music (Vocal)		
	Theory	45 05 (Int. Assessment)	3 Hours
	Practical	135 15 Int. Assessment)	30 to 40 minutes
	(b) Music (Instrumental) (Sitar)		
	Theory	45 05 (Int. Assessment)	3 Hours
	Practical	135 15 Int. Assessment)	30 to 40 minutes
	(c) Music (Tabla)		
	Theory	45 05 (Int. Assessment)	3 Hours
	Practical	135 15 Int. Assessment)	30 to 40 minutes
	(d) Indian Classical Dance (Kathak)		
	Theory	45 05 (Int. Assessment)	3 Hours
	Practical	135 15 (Int. Assessment)	30 to 40 minutes
	Total Marks:	600	

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MASTER OF PERFORMING ARTS (5-YEAR INTEGRATED COURSE)
PART-III
ENGLISH(COMPULSORY)
Paper –A

Max. Marks: 45
Int. Assessment: 5
Time: 3 Hours

Prescribed Books:

1. Poetry: The Eternal Muse to be edited by Dr. Brajesh Sawhney, Reader, Dept.of English, K.U.K. and Dr. Neena Malhotra, Head, Dept. of English, S.D.College, Ambala Cantt.

2. Play: Macbeth by William Shakespeare
   The following editions are recommended:
   1. New Cambridge Shakespeare
   2. New Arden
   3. Verity Edition
   4. Clarendon
   5. Signet Classics

Scheme of Examination:

Q.1 (a) One passage (with internal choice) for explanation with reference to the context from the Eternal Muse will be set.

(b) Similarly, there will be one passage (with internal choice) for explanation with reference to the context from Macbeth.

(4+4=8 marks)

Q.2 Two short questions (with internal choice) each one Poetry and the Play requiring critical understanding of the poems and the play.

(4+4=8 marks)

Q.3 One essay type question (with internal choice) on the book of poems, requiring first-hand appreciation of the poems. (10 marks)

Q.4 One essay type question (with internal choice) on the play requiring first-hand appreciation of the text . (including appreciation of the theme/characters/plot).

(9 marks)

Q.5 (a) 5 out of 10 short-answer type questions on the poems in The Eternal Muse to be attempted.

(5 marks)

(b) 5 out of 10 short-answer type questions on Macbeth shall have to be attempted.

(5 marks)

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Paper –B

Max. Marks: 45
Int. Assessment: 5
Time: 3 Hours

Prescribed Books:

1. A Text-Book of English Grammer and Composition to be edited by (i) Dr. S.C. Sharma, Head, Dept. of English, (ii) Shri Shiv Narain, Sr. Lecturer in English, University College, Kurukshetra, (iii) Shri Pankaj Sharma and (iv) Dr. Gulab Singh, Hindu College, Sonepat.
   The text book of grammar will focus on the following items:

(a) Essay : 400 words	10 marks
(b) Letter /Application (excluding personal letters)	08 marks
(c) Précis	07 marks
(d) Vocabulary : Synonyms, Antonyms, one word substitution	05 marks
(e) Correction of incorrect sentences/do as directed	05 marks

2. The Spectrum of Life: A selection of modern essays consisting of 10-12 essays of moderate length to be edited by Dr. M. K. Bhatnagar, Prof. and Head, Dept. of English, M.D.U., Rohtak.
   10 mrks

Scheme of Examination

Q.1 The students shall be required to attempt an essay of approximately 400 words, on any one topic out of the four given in the question paper. The topics may be of description, literary or general nature.
10 marks

Q.2 One question with internal choice will be set asking the students to write a letter/application. (Personal/Bussiness Correspondence).
08 marks

Q.3 Precis of a given prose passage of about 150 to 200 words (with internal choice).

07 marks

Q.4 Grammar (Vocabulary: Synonyms, Antonyms, one-word-substitution and correction of incorrect sentences (including items covered in the exercises contained in the book of essays).
10 marks

Q.5 One essay type question with internal choice on The Spectrum of Life: A Selection of Modern Essays.
10 marks

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MASTER OF PERFORMING ARTS (5-YEAR INTEGRATED COURSE)
PART-III

हिन्दी (अनिवार्य)

पूर्णांकः 90
आ.मू.लि.: 10
समयः 3 घण्टे

पाठ्य-पुस्तक/पाठ्य-विषयः

1. हरियाणवी जनपदीय भाषा और साहित्य से सम्बन्धित पुस्तक, कुरूक्षेत्र विश्वविद्यालय, कुरूक्षेत्र के हिन्दी विभागाध्यक्ष द्वारा निर्मित होकर उपलब्ध कराई जायेगी। यह दायित्व विभागाध्यक्ष को सौंपा गया।
2. प्रयोजन-मूलक हिन्दी की पुस्तक, म.द.वि. के विभागाध्यक्ष (हिन्दी) द्वारा निर्मित होकर उपलब्ध कराई जायेगी। इसमें काव्यांग भी समाहित होगा।
3. हिन्दी साहित्य का इतिहास (आदिकाल एवं मध्यकाल)।

निर्देशः

1. हरियाणवी जनपदीय भाषा और साहित्य पर आधारित पुस्तक से व्याख्या के लिए चार अवतरण पूछे जायेंगे। परीक्षार्थियों को इनमें से दो की सप्रसंग व्याख्या करनी होगी। प्रत्येक व्याख्या सात-सात अंकों की होगी।
2. हरियाणवी जनपदीय भाषा और साहित्य पर आधारित पाठ्य-पुस्तक में से किन्हीं दो रचनाकारों का साहित्यिक परिचय पूछा जायेगा। जिनमें से परीक्षार्थियों को एक का परिचय लिखना होगा। यह प्रश्न आठ अंकों का होगा।
3. पाठ्य-पुस्तक की की 'अनुशीलनी' में से निर्धारित प्रश्नों में से कोई दो प्रश्न पूछे जायेंगे, जिनमें से एक का उत्तर देना होगा। यह प्रश्न आठ अंकों का होगा।
4. प्रयोजन-मूलक हिन्दी और हिन्दी भाषा पर आधारित पुस्तक से चार प्रश्न पूछे जायेंगे, जिनमें से परीक्षार्थियों को दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न दस-दस अंकों के होंगे।
5. हिन्दी साहित्य का इतिहास (आदिकाल एवं मध्यकाल) इसमें से चार प्रश्न पूछे जायेंगे, जिनमें से परीक्षार्थियों को दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न आठ-आठ अंकों के होंगे। हिन्दी साहित्य का इतिहास (आदिकाल एवं मध्यकाल) का पाठ्य विषयः

   1. हिन्दी साहित्य का इतिहास का काल विभाजन, 2. आदिकाल का नामकरण, 3. आदिकाल की परिस्थितियां, 4. आदिकाल की प्रवृत्तियां, 5. भक्तिकालीन परिस्थितियां, 6. संत-काव्यधारा की विशेषताएं, 7. प्रेमाश्रयी काव्यधारा की विशेषताएं, 8. रामकाव्यधारा की विशेषताएं, 9. कृष्ण

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काव्यधारा की विशेषताएं, 10. भक्तिकालः स्वर्णयुग, 11. रीतिकाल की परिस्थितियां, 12. रीतिकाल का नामकरण, 13. रीतिकाल की विशेषताएं, 14. रीतिमुक्त काव्य की विशेषताएं।

6. निर्धारित समग्र पाठ्य पुस्तक से छः लघुत्तरी प्रश्न पूछे जायेंगे, जिनमें से परीक्षार्थियों को तीन प्रश्नों के उत्तर (250 शब्दों में) देने होंगे। प्रत्येक प्रश्न पांच अंकों का होगा। पूरा प्रश्न 15 अंकों का होगा।

7. काव्यांग से रस (विविध रस भेद और अलंकार) अनुप्रास, श्लेष, यमक, वीप्सा, पुरूक्ति, प्रकाश, उपमा, रूपक, उत्प्रेक्षा, अतिश्योक्ति, मानवीकरण निर्धारित है। इनमें दो रसों का और दो अलंकारों के उदाहरण सहित लक्षण पूछे जायेंगे। परीक्षार्थियों को एक रस और एक अलंकार के सोदाहरण लक्षण लिखने होंगे। यह प्रश्न चार जमा साढ़े-चार = 9 अंकों का होगा।

MASTER OF PERFORMING ARTS (5 YEAR INTEGRATED COURSE)
PART-III
MUSIC (VOCAL)

Max. Marks: 45
Int. assessment: 05
Time: 3 Hours

Theory

Note: The question paper will be divided into three sections. The candidate will be required to attempt **five** questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section – A

(a) Historical study and detailed description of the ragas prescribed in the syllabus.
(b) Ability to write the notation of vilambit and drut khyalas in the ragas and thekas with chaugun in the talas as prescribed in the syllabus.
Ragas: 1. Todi 2. Puria Dhanashree 3. Basant 4. Kamod 5. Bhimpalasi 6. Miyan ki Malhar 7. Bihag 8. Deshkar 9. Bahar.

Talas: 1. Dhamar 2. Sultal 3. Teental 4. Jhaptal 5. Keharawa (Thekas on tabla also).

Section – B

(a) Origin and development of notation system, merits and demerits of notation system.
(b) Historical survey of Indian music from 17^{th} to 19^{th} century.
(c) Lalit kalaon me Sangeet ka sthan.
(d) Voice-Culture.
(e) Life sketches:(1) Acharya K.C.D. Brihaspati (2) Pt. Lalmani Mishra
(3) Pt. Vinayak Rao Patwardhan (4) Ustad Amir Khan
(5) Gangubai Hangal (6) Krishna Rao Shankar Pandit

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Section – C

(a) Critical analysis of the time theory of ragas.
(b) Essay on "Teaching of music through gharana and educational institutes".
(c) Elementary knowledge of the folk music of Haryana and Punjab.
(d) Classification of instruments during vedic period, medieval period and modern period.
(e) Contribution of various singers: Mohammad Rafi, Kishor Kumar, Lata Mangeskar, Manna De.

Practical

Max. Marks: 135+15
Time: 30 to 40 Minutes

Note: Candidates will not be allowed to sing with harmonium in the examination. Tanpura should be used for accompaniment.

(a) One drut khyal with alap, bol tans, bol alaps in all the prescribed ragas. Out of nine drut khyals one may be set to any tala other than Teental.
(b) Four slow khyals with extempore alaps and tans in any of the prescribed ragas.
(c) One dhrupad and one dhamar with dugun, tigun and chaugun.
(d) Ability to demonstrate by hand the following talas in dugun, tigun and chaugun layakaries: Dhamar, Sultal, Teental, Jhaptal and Keharawa (thekas on tabla also).
(e) The candidate will be required to sing vilambit and drut khyal of raga of the examiner's choice.
(f) One Tarana in any of the prescribed ragas.
(g) Tuning of tanpura.
(h) Ability to demonstrate one raga with two alaps and two tans on harmonium.
(i) Ability to play and sing-Geet, Ghazal, Bhajan with harmonium.
(j) Ability to play one welcome song and group song with harmonium
(k) Viva-voce.

Distribution of marks:

Vilambit khyal	-	25
Drut khyal	-	25
Dhrupad	-	15
Tarana	-	15
Tala	-	15
Drut khyal on harmonium	-	15
Geet, Ghazal, bhajan	-	15
Welcome song & group song	-	10
Total	**-**	**135 marks.**

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MASTER OF PERFORMING ARTS (5 YEAR INTEGRATED COURSE)
PART-III
MUSIC (INSTRUMENTAL)

Max. Marks: 45
Int. assessment: 05
Time: 3 Hours

Theory

Note: The question paper will be divided into three sections. The candidate will be required to attempt **five** questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section – A

(a) Historical study and detailed description of the Ragas prescribed in the syllabus:
Ragas: 1. Todi 2. Miyan Ki Malhar 3. Puriya Dhanashree 4. Kamod 5. Basant
6. Bihag 7. Deshkar 8. Bhimpalasi 9. Bahar.
Talas: Dhamar, Jhaptal, Kaherwa, Sultal.

(b) Ability to write the notation of Maseet Khani, Rajakhani and Ameerkhani gats in the ragas and thekas with chaugun in the talas as prescribed in the syllabus.

Section – B

(a) Origin and development of notation system along with their merits and demerits.
(b) Origin and development of Indian orchestra.
(c) Rag-Ragini vargikaran.
(d) Development of Indian classical music during 17^{th} and 19^{th} century.

Section – C

(a) The contribution towards the development of Sitar playing of the following:
1. Ustad Mushtak Ali Khan 2. Pt. Nikhil Banerjee
3. Ustad Ali Akbar Khan 4. Ustad Vilayat Khan
(b) Suggestion for popularizing classical music in society.
(c) Harmony and Melody.
(d) The role of music in International Culture Exchange.

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Practical

Max. Marks: 135+15

Time: 30 to 40 Minutes

(a) Five detailed ragas (Maseetkhani and Rajakhani gat) with extempore, aplas and toras in any of the prescribed ragas.

(b) One dhun in any of the following ragas:
Maand, Pahari or prescribed ragas in your syllabus.

(c) One gat in Jhaptal or Rupaktal in medium tempo with toras in any of the prescribed ragas.

(d) Ability to demonstrate by hand the following talas in dugun, tigun and chaugun layakaries: Dhamar, Jhaptal, Kaharwa, Sultal.

(e) Ability to play one taal on Tabla prescribed in the syllabus.

(f) Basic knowledge of playing Harmonium (Alankars and patriotic songs).

Distribution of marks:

Choice rag	-	50
Other than teental	-	25
Dhun	-	20
Tala	-	20
Alankars or patriotic songs	-	20
Total	**-**	**135 marks.**

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MASTER OF PERFORMING ARTS (5 YEAR INTEGRATED COURSE)
PART-III
MUSIC (TABLA)

Max. Marks: 45
Int. assessment: 05
Time: 3 Hours

Theory

Note: The question paper will be divided into three sections. The candidate will be required to attempt **five** questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section – A

(a) Practice and knowledge of previous year course is compulsory.
(b) Origin and development of Tabla and Pakhawaj.
(c) Comparison of Hindustani and Karnataki (Dakshini) Taal system.
(d) Comparison between Laya and Layakari. Explain with example – Adi Laya (3/2), Kuaad Laya (5/4) and Biaad Laya (7/4).

Section – B

(a) Knowledge of main Tabla Gharanas.
(b) Study of merits and demerits of Tabla and Pakhawaj Player as described in the Granthas.
(c) Life sketches:(1) Ustad Habibuddin Khan(2) Ustad Karamtulla Khan (3) Ustad Alla Rakha (4) Ustad Abid Hussain (5) Ustad Aafaq Hussain (6) Ustad Latif Ahmad Khan.

Section – C

(a) Knowledge of Staff Notation System.
(b) Importance of Taal in music.
(c) Classification of Indian Instruments.
(d) Practice and knowledge of following Taals : Ektal, Ada Chartal, Laxmi Taal, Pancham Sawari Taal, Jhumra Taal, Punjabi Taal.

Practical

Max. Marks: 135+15

Time: 30 to 40 Minutes

(a) Ability to play Tabla Solo for 15 minutes with Lahera.
(b) Two Kayda of Delhi, Punjab and Banaras Gharana with 6 paltas and tihai in Teental.
(c) Peshkar, Kayda-Palta, Tihai, Tukdas and Parans in Jhaptal.
(d) One Bant with 6 variations in Teental.
(e) Practice and knowledge of following Taals : Laxmi Taal, Pancham Sawari Taal, Jhumra Taal. A simple paran and two tihai in each of these.
(f) Gat Kayda in Teental.
(g) Two Kaydas with 4 Paltas and Tihai in Ektal, Ada Chartal.
(h) At least two Tukras and Chakradar Paran in Ektal, Ada Chartal.
(i) Playing ability of Ektal and Jhumra Tal in Vilambit Laya.
(j) Practice and knowledge of previous year course in compulsory.
(k) Practice and knowledge of providing attractive accompaniment to vocal, instrumental and dance.

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MASTER OF PERFORMING ARTS (5 YEAR INTEGRATED COURSE)
PART-III
INDIAN CLASSICAL DANCE(KATHAK)

Max. Marks: 45
Int. assessment: 05
Time: 3 Hours

Theory

Note: The question paper will be divided into three sections. The candidate will be required to attempt **five** questions in all, selecting at least one question from each section. All questions will carry equal marks.

Section – A

(a) Role of dance in Ramayana and Mahabharata.
(b) Dance and its relation with other fine arts.

Section – B

(a) Importance of Ghunghroo in kathak dance.
(b) Definition of following:
1. Kasak 2. Masak 3. Kataksh 4. Hastak
5. Kavitt 6. Ghoonghat 7. Tipalli 8. Ang
9. Pratyang 10. Upaang.

Section – C

(a) Define Bhav, Anubhav, Sanchari, Vibhav in the context of emotions.
(b) Importance of Taal in music.
(c) Life sketches: 1. Bindadin Maharaj 2. Narayan Prasad.

Section – D

(a) Knowledge of Indian classical dances:
1. Oddissi 2. Mohiniattam
(b) Historical background of folk dance of Rajasthan.

Section – E

(a) Notation of the all materials of Pancham Sawari Taal(15 Matras) and Asht Mangal Taal (11Matras):
1. Simple Tatkar (ekgun, dugun, chaugun) 2. Toda 3. One Paran Amad 4. One Amad 5. Two Parans 6. One Chakkardar Paran 7. Kavitt 8. That 9. Shiv Paran
(b) Write the following Taals with theka, dugun and chaugun layakaries:
Chautal, Raas Taal, Pancham Sawari Taal, Asht Mangal Taal.

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Practical

Max. Marks: 135+15

Time: 30 to 40 Minutes

(a) Practical demonstration of following taals:
Pancham Sawari Taal (15 Matras):

1. Simple Tatkar (ekgun, dugun, chaugun) 2.Toda 3. One Paran Amad 4. One Amad

5. One Chakkardar Paran 7. Paran 8. That

9. Shiv Paran

Asht Mangal Taal (11 Matras):

1. That 2. Toda 3. Parmelu 4. Amad

5. One Chakkardar Tukda 6. Paran 7. Kavitt

(b) Abhinaya on Thumri or Bhajan.
(c) Padhant of whole material by hand.
(d) Abhinaya on Goverdhan Leela or Kaliya Daman.

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Lesson Plan for Certificate Course in Fashion Designing

Lesson: 1 Textile Fibre and their classification.
Lesson: 2 Introduction to art media and its applications.
Lesson: 3 Elements and principles of design.
Lesson: 4 Fashion Terminology, Sources of fashion.
Lesson: 5 Clothing for different figure type, age group and occasion.
Lesson: 6 Different styles of Garments: Skirts, Trousers, Frock, Nightie/ Gown, One piece dresses.
Lesson: 7 Sewing Equipments and their functions.
Lesson: 8 Different methods of Making Pattern: Drafting, Paper Pattern, Draping.
Lesson: 9 Fitting Factors for goods fittings.
Lesson: 10 Common fitting Problems & their remedies.

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KURUKSHETRA UNIVERSITY KURUKSHETRA

CERTIFICATE COURSE
FASHION DESIGNING

Note : **Exam duration: 3 hours**
Maximum Marks: 100

- Examiner will set ten questions in all, two questions from each unit.
- The candidates are required to attempt five questions by selecting two questions from each unit.
- All the questions will carry equal marks.

Unit– I

Definition of Fibre and its classification
Different fibres – Natural and artificial in detail.
Draping – Slash and spread and tucking method.

Unit – II

Introduction to art media and its application. Different art media like– rubber, pencil, pencil colours, crayons, poster colours, acrylic etc.
Fitting – Factors for a good fitting, reasons for poor fitting, factors to check good fitting.
Common fitting problems and remedies to overcome them.

Unit – III

Different methods of developing design:- Pattern Making
Drafting – Definition, advantages and disadvantages.
Paper Pattern – Principles, Terminology, Advantages and Disadvantages.
Elements of art and design – Line, Form, Shape, Texture and Color.
Principles of design – Harmony, Proportion, Balance, Rhythm, Emphasis.

Unit – IV

Fashion – origin, evolution, importance and fashion cycle.
Different terminology related to fashion – fashion, fad style, trend, classic, boutique, and silhouette.
Sources of fashion: factors favoring and retarding fashion.

Unit – V

Clothing for different age groups. Figure types.
Clothing for different occasions.
Different styles of garments – skirts, trousers, frock, nightie/gown, one piece dress.

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PRACTICALS

Exam duration: 3 hours
Maximum Marks: 100

1. Equipments and supplies used for clothing.
2. Sewing machine and its parts and their functions.
3. Care to be taken while taking body measurements.
4. Basic samples related to stitching (Sample File).
5. Basic stitches of knitting.
6. Basic stitches of embroidery.
7. Making samples using principles of design showing through line, color and Texture.
8. Stitching of garments as per theory.
9. Drafting.
10. Pattern making.

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B.A. (General) Part-II Syllabus
Examination Scheme

THIRD SEMESTER

PAPER	NAME OF THE PAPER	Internal Marks	M.MARKS	Total	TIME
Paper-I	Social History of India (From the earliest time to 1200 A. D.)	10	90	100	3 Hours

FORTH SEMESTER

PAPER	NAME OF THE PAPER	Internal Marks	M.MARKS	Total	TIME
Paper-I	Economic History of India (From the earliest time to 1200 A. D.)	10	90	100	3 Hours

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THIRD SEMESTER
ANCIENT INDIAN HISOTRY, CULTURE AND ARCHAEOLOGY

Paper-I: Social History of India
(From the earliest time to 1200 A. D.)

Max. Marks: 90
Internal Evaluation: 10
Time: 3 Hours

Note:-

1. At least 10 questions will be set in four sections. The Candidates will have to attempt 5 questions in all, selecting at least One question from each section.

2. There shall be one objective type question. The question will be divided into three Sections. Section-1 shall have snap shot type questions of 8 marks. Section-II will have multiple choice questions of 5 marks. Section-III will have matching type questions of 5 marks.

Section-I

Social life of Indus Valley Civilization and Vedic period.

Section-II

Origin and Development of Varna, Jati and Samskara.

Section-III

Position of Women (Property right, Education, Sati and Devadasi system) Marriage: Slavery and Untouchability.

Section-IV

Objective Type Question (Covering entire syllabus, section- III)

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BOOK RECOMMENDED:

1. उपाध्याय रामजी : प्राचीन भारत की सामाजिक संस्कृति
2. Sharma R.S. : (i) Material culture and social Formation in Ancient India.
   (ii) Perspectives in Social Economic History of early India, Delhi, 1983.
   (iii) शूद्रों का प्राचीन इतिहास, दिल्ली, 1979
3. पाण्डेय राजबली : हिन्दू संस्कार, वाराणसी, 1957
4. Probhu P.N. : Hindu Social Organization, Bombay 1958.
5. Sharma B.N. : Social Life in North India, Delhi 1966 (600-1000 A.D)
6. जयशंकर मिश्र : प्राचीन भारत का सामाजिक इतिहास, पटना, 1974
7. राय विजय बहादुर : उत्तरवैदिक समाज एवं संस्कृति, वाराणसी, 1966
8. मदन मोहन सिंह : बुद्धकालीन समाज और धर्म, पटन, 1972

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FORTH SEMESTER
ANCIENT INDIAN HISOTRY, CULTURE AND ARCHAEOLOGY

Paper-I: Economic History of India
(From the earliest time to 1200 A. D.)

Max. Marks: 90
Internal Evaluation: 10
Time: 3 Hours

Note:- 1. At least 10 questions will be set in four sections. The Candidates will have to attempt 5 questions in all, selecting at least one question from each section.

2. There shall be one objective type question. The question will be divided into three Sections. Section-1 shall have snap shot type questions of 8 marks. Section-II will have multiple choice questions of 5 marks. Section-III will have matching type questions of 5 marks.

Section-I

Economic life during Harppan Civilization and Vedic period, First and second Urbanization.

Section-II

Economic conditions during Mauryas & Guptas.

Section-III

Trade and commerce in Ancient India, Origin and Growth of Feudalism.

Section-IV

Objective type question (Covering entire syllabus, section -III)

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BOOK RECOMMENDED:

1. त्रिपाठी रामनरेश : प्राचीन भारत का आर्थिक विचार, इलाहाबाद, 1981
2. मोती चन्द्र : सार्थवाह, पटना, 1953
3. Sharma R.S. (i) Perspectives in Social and Economic History of Early India, Delhi, 1983.
   (ii) भारतीय सामन्तवाद, दिल्ली, 1972
4. झा.डी.एन : मौर्योत्तर तथा गुप्तकालीन राजस्व व्यवस्था, दिल्ली, 1972
5. Jairabhoy R.A. : Foreign influence in Ancient India, New Delhi, 1963.
6. Das. S.K : The Economic History of Ancient India, Calcutta, 1977.
7. Maity S.K : Economic life of Northern India in Gupta period (A.D. 300-500) Calcutta, 1958.
8. Thakur V.K : Urbanisation in Ancient India, New Delhi, 1981.
9. Gopal Lallanji : The Economic Life of Northern India (A.D 700-1200) Varansi, 1965.
10. Kher N.K : Agrarian and Fiscal Economy

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Scheme of Examination of Post Graduate Diploma in Forensic Science and Criminology

	Marks	**Time**
Paper 1: General Forensic Science	100	3 hrs.
Paper 2: Investigation Techniques	100	3 hrs.
Paper 3: Forensic Biology	100	3 hrs.
Paper 4: Criminology	100	3 hrs.
Paper 5: Project/Research Report & Viva	75+25	

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Max. Marks: 100
Time : 3 hrs.

Paper 1: General Forensic Science

Note: Eight questions will be set and candidates will attempt any four questions

1. **Introduction to Forensic Science:** Definition and Scope, History and Development, Organizational setup of FSL, Role of forensic expert in crime investigation.
2. **Crime Scene Investigation:** Introduction, process of crime scene investigation, recording of crime scene, searching and handling of evidence, Chain of custody, Preserving evidence, crime scene reconstruction.
3. **The Nature of Evidence:** Definition, Types of evidence, Physical evidence, comparison, significance. Strength and weakness of material evidence.
4. **Forensic Ballistics**: Introduction, Types of firearms and their characteristics, country made firearms, size of Ammunition and Barrels , Anatomy of Live Round, propellants, primers; Examination of Fire Arm Evidence – crime scene processing, bullet and cartridge comparison, Gunshot residue pattern.
5. **Forensic Chemistry**: Introduction, Common drugs of abuse- their classification and general characteristics as exemplified by opium and allied drugs, cocaine, amphetamines, cannabis and LSD. Analysis of drugs, Investigation of arson case, trap related clues, cosmetics and dyes.
6. **Forensic Toxicology**: Introduction, Definition & classification of poisons, types of poisoning, poisoning trends in India, Introduction to common poisons such as Alcohol Insecticides, plant poisons, Arsenic. Collection and preservation of viscera and other toxicological evidence.
7. **Forensic Anthropology:** Definition, scope and problems, morphological study of human skeleton, age, sex and stature determination from skeletal remains. Bite marks: methods of collection, preservation, comparison and their significance.

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Suggested Readings

1. Saferstein. Criminalistics, 5th edt, Prentice Hall Inc., USA.
2. Saferstien. Forensic Science, Handbook, Vol. I, II & III, Prentice Hall Inc. USA.
3. BR Sharma, Forensic Science in Criminal Investigation and trial. Universal Pub Co.
4. James, S.H and Nordby, J.J. (2003). Forensic Science: An introduction to scientific and investigative techniques CRC Press, USA.
5. David R. Redsicker. The Practical Methodology of Forensic Photography- 2nd Ed. CRC Press LLC (2001)
6. Upton, Kobre, Brill. Photography, Pearson Education, Inc
7. Nanda, B.B. and Tewari, R.K. (2001) : Forensic Science in India : A vision for the twenty first century Select Publisher, New Delhi
8. Wilson R. Harrison; Suspect Documents Their Scientific Examination, Universal Law Pub. Delhi Indian
9. Albert S. Osborn. Questioned Documents, 2nd Ed., Universal Law Pub., Delhi (1998)
10. B.L Saxena. Law and techniques relating to identification, of handwriting, disputed documents, finger prints, foots and detection of forgeries, Central Law Agency, Allahabad (1990)
11. Krik. Criminal Investigation. Interscience Publisher. New York.
12. Barry A J Fisher and Sherman block. Techniques of Crime Scene Investigation. CRC Press.
13. Principles of bloodstain pattern analysis: theory and practice, By Stuart H. James, Paul Erwin Kish, T. Paulette Sutton
14. R.E. Jacobson, S.F. Ray, G.G. Attridge, N.R. Oxford. The Manual of Photography- Photographic and Digital Imaging. Focal Press

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Max. Marks: 100
Time : 3 hrs.

Paper 2 : Investigation Techniques

1. Collection and Preservation of Physical evidences from scene of crime.
2. Use of different types of light sources/rays in investigations.
3. **Forensic Photography:** Introduction and techniques, recent development in photography. Crime scene and laboratory photography, Photographic techniques to questioned document & their importance.
4. **Vehicle Examination:** Introduction, Glass and soil as forensic evidence, collection and analysis of paint, tool marks.
5. **Fingerprints and other impressions:** Introduction, origin of finger prints, Fingerprint patterns, detection and visualization of finger prints, comparison and classification of fingerprints; Footwear impressions, Tire tread impressions.
6. **Document Examination:** Introduction, Questioned document, Handwriting analysis, comparison of handwritings, Fraud and Forgery, Erasures, Obliterations, Alterations, Indented Writing, Overwriting, Additions, Paper examination, Ink examination.

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Suggested Readings:

1. JK Modi. Medical Jurisprudence & Toxicology, M. M. Trirathi Press Ltd. Allahabd
2. S.N. Tiwari. Analytical Toxicology, Govt. of India Publications, New Delhi, 1987.
3. R Saferstein. Forensic Science Hand Book, Vol I, II and III, Pretince Hall, NI, 1982.
4. R Saferstein. Criminalistics 5th EdtPrentice Hall Englewood Cliffs, NJ) 7632.
5. O Hara & Osterburg : Introduction to Criminalistics, 1949
6. Bridges BC. Criminal Investigation, Practical Finger Printing, Thumb Impressions, Hand writing Expert testimony opinion Evidence, University Book Agency, Allahabad.
7. B.R.Sharma. Forensic Science in Criminal Investigation & Trials, Universal Publication Co.
8. Parikh's test book of medical jurisprudence Forensic medicine and toxicology.
9. Maehly and Stromberg. Chemical Criminalistics, 1980.
10. BR Sharma. Firearms in criminal investigation and trials.
11. Karl G. Sellier etal. Wound Ballistics and The Scientific Background, Elsevier Pub. Co.London (1994).
12. Curry. Analytical Methods in Human Toxicology, Part II, 1986

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Max. Marks: 100
Time : 3 hrs.

Paper 3 : Forensic Biology

1. **Forensic Biology:** Introduction, types of biological evidences, identification collection, preservation, examination and evaluation of biological evidence such as semen, saliva, urine and milk etc.
2. **Importance of Biological Evidences:** Hair, fibers, pollen grain, diatom etc., their nature, type, identification and Forensic signification.
3. **Applications of Forensic Serology**- DNA/Blood group profiling & their applications in forensic science, sampling, procedures and analysis of reports.
4. **Death investigation:** General consideration of time and cause of death, drowning, burning, hanging and strangulation, post mortem examination, Insects as Forensic indicators. Elementary forensic medicine & medical jurisprundence regarding causes of injuries, causes of death, time lapse since death.
5. **Personal identification :** Methods of personal identification their significance in crime investigation with special emphasis on trace evidences mole, scars, tatoos, injury marks etc.
6. **Wildlife Crime in India:** Its investigation from scientyific point of view.

Suggested Readings:

1. Alan Gunn. Essential Forensic Biology. 2nd edt (2009). Wiley-Blackwell
2. Richard Li. Forensic Biology. CRC Press
3. Robertson, J. (1996). Forensic Examination of Hair. Taylor and Francis, USA.
4. Modi J.K., Medical Jurisprudence & Toxicology. M. M. Trirathi Press Ltd. Allahabd
5. Reddy KSN. Essential of Forensic Medicine and Toxicology (2005)
6. John M Butler. Forensic DNA Typing. Elsevier Academic Press.
7. John Buckleton and Christopher M. Triggs and Simon J. Walsh; Forensic DNA Evidence Interpretation, CRC Press

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Max. Marks: 100
Time : 3 hrs.

Paper 4 : Criminology

1. **Criminology:** Introduction, scope and development. Crime- Concept, types and classifications of crimes, cause of crime, control and prevention of crime, Organizations dealing with crime & criminals.
2. **Criminal Behaviour and Psychology:** Theories of criminal behaviour

   (a) Classical theory (b) Positivist theory (c) Sociological theory (d) Multifactor theory.
3. **Criminal Profiling:** Introduction, importance, profile of the victim and culprit, Modus Operandi and its role in Criminal Investigation. Methods in Criminology: individualistic methods, case study methods, treatment, punishments, probation and parole.
4. **Psychology & Scientific Methods of Interrogation:** Introduction and basics of polygraphy, Brain mapping and norco analysis; significance, limitation & legal aspects.
5. **Cyber Crime:** Introduction, Investigation & Limitation.
6. **Legal aspects of Forensic Science:** Introduction, Admissibility of evidence, Relevance, Competence, Laboratory reports and Expert testimony in court. Evidential value of forensic evidence.
7. **Indian Evidence Act, Indian Penal Code and Criminal Procedure Code :** Sections of CrPC, IPC & Indian Evidence Act relating to forensic science, forensic evidence, collection, preservation and examination, presentation & evaluation of evidence and inherent powers of the court. Definition, evidence (sec 2, 3), relevance of facts Sec-5-9, 32, opinion of third person (sec 45-47, 57, 58, 60, 73), examination of witness (135 to 141); Dishonesty (sec-24, 25), General exceptions, offences against the person (sec 299, 300, 302, 304B, 307, 309, 319, 320, 324, 326, 351, 354, 359, 362, 375 and 377) and offences against property (Sec 378, 383, 390, 391, 405, 415, 420, 441, 463, 489A, 497, 499, 503 and 511); Introduction, charges, clauses of criminal courts and their powers, bailable and non-bailable offences, power of police to investigate (sec 154-176), Sommons and warrants.

Suggested Readings:

1. The Indian Penal Code (1860).
2. The Indian Evidence Act (1872), Amendment Act (2002), Universal Law Pub. Co.
3. The Code of Criminal Procedure (1973) Amendment Act, (2001), Universal Law Pub. Co.
4. Ahuja R. Sociological criminology. New Delhi
5. Siddique A. criminology, problem and prospective. Lucknow, Eastern Book Company.
6. Crime & Criminology. Isha Books Publication. Delhi(2006)
7. Saxena N.S. Law & order in India. New Delhi.
8. Criminology. Oxford Publications (2006)

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MBA (Service Management) Semester -III

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
SM-301	Business Policy and Strategic Management	40	60	100
SM -302	Total Quality Management	40	60	100
SM -303	Summer Training	-	100	100

Optional papers (Candidates would be required to select any Three papers from Major area of specialization and Two papers from any Minor area of specialization.)

List of Optional Papers of various specializations

Finance

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
SFM-304	Management of Financial Services	40	60	100
SFM-305	Financial Institutions and Markets	40	60	100
SFM-306	Custodian and Dematerialization Services	40	60	100
SFM-307	Principles of Insurance	40	60	100
SFM-308	Equity Research Analysis	40	60	100
SFM-309	Bank Management	40	60	100

Marketing

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
SMM-310	Services Marketing	40	60	100
SMM -311	Consumer Behaviour	40	60	100
SMM -312	International Marketing	40	60	100
SMM -313	Retailing Management	40	60	100
SMM -314	Rural Marketing	40	60	100

HRM

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
SHRM-315	Labour Legislation in India	40	60	100
SHRM -316	Compensations Systems in Service Sector	40	60	100
SHRM -317	Management of Training and Development	40	60	100
SHRM -318	Organizational Change and Intervention Strategies	40	60	100
SHRM -319	Interpersonal Influence and Leadership in Services Sector	40	60	100

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SM- 301: Business Policy and Strategic Management

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course outlines:

Strategic Management- Meaning, Nature, Scope Historical Development. Strategic Intent- vision, mission, objectives, strategy, policy, procedure, rules, methods, budget etc. Strategic Management in future. Environmental Scanning- Internal and External. Various forces and techniques involves in internal and external environmental scanning. Strategic alliances. Strategic Alternatives and Choices- stability strategy, growth strategy, retrenchment strategy and combination strategy. Strategic choices models: BCG Matrix, GE Matrix, Ansoff Model and Shell Matrix.

Strategic Implementation- Difference and relationship between formulation and implementation. Strategic Implementation- Process and various issues- Management issues and functional issues. An introduction to functional policies- Marketing, Finance, HR, Production and R&D policies Strategic Evaluation and Control- Meaning and Significance. Various evaluation and control techniques. Strategic Evaluation Assessment Matrix.

Suggested Readings

1. Hitt, Ireland and hopkinson, Strategic Management, Thomson Publication, 6th edition, New Delhi.
2. Gluick, Business Policy and Strategic Management, PHI Publications, New Delhi.
3. Wheelan S, Strategic Management, Pearson Education, New Delhi
4. Sivastava, P.K, Management Policy. Himalaya Publishing House New Delhi.

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SM- 302: Total Quality Management

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Objective: The objective of this Course is to acquaint the students with the concept, techniques and field of total Quality Management.

Course Outlines:

The Quality Concepts and objective Core concepts of total quality management. Organization for Quality management quality related costs. Quality policy. TQM Gurus Ideas: W. Edward Deming, Joseph M. Juran, Philip Crosby Kaoru Ishikawa, Shigea Shingo, Yoshio Kando and William E. Conway.Quality in Design: Design objectives: Standardization Meaning, Aims, Principles and Value, Quality Control of Design. Product Reliability. Tools for Effective Product Development; Quality Function Deployment Matrix, Value Analysis Matrix, Failure Mode and Effect Analysis, Fault Tree Analysis.

Statistical Methods, for Quality Control in Manufacturing: Statistical Quality Control. Process capability Assignable and Unassignable causes, Capability Analysis. Control Charts basic procedure. Business Process Reengineering. Total Productive Maintenance. J.I.T. and Quality Audit and ISO 9000. Future of Total Quality Management in India.

Suggested Readings:

1. Bharat Wakhlu : Total Quality Excellence Through Organisation wide Transformation, Wheeler Publishing, New Delhi.

2. Bagchit, T.I.P.ISO 9000 : Concepts, Method and Implementation Wheeler Publishing, New Delhi.

3. SAMUEL, KHO : TQM Integrated Approach, Kogan Page Limited, London .

4. Helga Drummond : The TQM Movement UBS Publisher Dist. Ltd., New Delhi

5. Heide, J.D. : Industrial Process Control by Statistical Methods.

6. Lal H. : Total Quality Management

7. Fetter, R.B. : The Quality Control System.

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SM- 303: Summer Training

Max. Marks: 100

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SFM- 304: Management of Financial Services

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objective: The objective of this course is to impart knowledge to students regarding the theory and practice of Security Analysis and Investment Management.

Course Outlines:
Introduction features, scope & type of financial services, institutions providing financial services. Merchant banking: nature functions & organization, SEBI guidelines in relation to merchant banking

Leasing: nature, features, types tax legal & accounting aspects. Lease structuring, lease agreement, funding of lease, hire purchase, financial & legal evaluation, mutual funds

Bills discounting scheme, meaning , mechanics, features, types, legal & financial aspects of factoring & forfeiting, foreign currency loans & finance, Venture capital funds

Ccorporate advisory services, capital structure decision, corporate restructuring, merger & acquisition of units, reorganizing & financing of sick units. Project counseling & finance

Issue management & underwriting: Management of public equity issue, underwriting arrangements, portfolio management services, SEBI guidelines, credit rating services.

Suggested Readings:
V A Avadhani : Investment &securities
S. Shiva Ram : Global financial services industry
J.C. Verma : Lease Financing
J.C. Verma : Merchant Banking
M.Y Khan : Mgt of Financial services

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SFM- 305: Financial Institutions and Markets

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objective: The objective of this course is to discuss the Indian financial market, management of financial institutions including a detailed study of the working of the leading financial institutions in India.

Course Outlines:
Introduction and overview of Indian financial system; Role of Financial System in economic development; Capital and money markets; Risk management in Indian Financial Institutions; Interest Rate Analysis; Interest Rates in the Financial System; Yield Curve; Risk and Inflation; Role of RBI in regulating financial institutions; Insurance Companies; Thrift Institutions; Capital Adequacy and Capital Planning; Problems of Time and Cost Over Runs; Financial Planning of Financial Institutions; Introduction to Depository Institutions; Role of Development Banking in Industrial Financing in India: Objectives and Functions of Different Financial Institutions in India. Mutual Funds; International Aspects of Financial Institutions.

Suggested Readings:

1. Rose, Peter S. and Fraser, Donald R. Financial Institutions. Ontario, Irwin Dorsey, 1985.
2. Vij, Madhu. Management of Financial Institutions in India. New Delhi, Anmol, 1991.
3. Yeager, Fred C. and Seitz, Nail E. Financial Institution Management: Text and Cases. 3rd ed. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1989.
4. Bhole L.M., Management of Financial Institutions, Tata McGrawHill 2001.
5. Khan M.Y., Indian Financial System, Tata McGraw Hill, 2000.

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SFM- 306: Custodian and Dematerialization Services

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Outlines:

Dematerialization of shares: procedure, advantages and rights and duties of DP and investors, Depositor Legislation : SEBI guidelines. rights and obligation of Depositories. Salient features of the Depositories Act,1996 as regard to regulation and the promotion of Depository institution and participants.

Dmat account opening: process and procedure, documentation, charges for Dematerialization/ Dematerialization, Annual Accounts maintenance and Transfer Fee. Opening of multiple Dmat accounts. Beneficial Owner: meaning, advantages and responsibilities.

Depository Institution: Stock Holdiy Corporation of India Ltd. (SHCIL), National Securities Depositors Ltd. (NSDL) and Central Depository Services (India) ltd (CDSL): their organization, functions, management and the services offered.

Suggested Readings:

The depository Act, 1996
www.nseindia.com

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SFM- 307: Principles of Insurance

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Objective: Course objective is to acquaint students with the contemporary issues in insurance sectors. It also imbibe knowledge of managerial issues related to life insurance and general insurance.

Course Outlines:

Insurance – Concept, Nature, Classification-Life & Non-life, Principles of insurance; 'Social Security Insurance' Insurance Act 1938 - Objectives, Rights available to Insurer & Insured; Insurance Management – Concept, Importance, Privatizations of Insurance Sector – its implications; IRDA Act 1999 – Organisation, guidelines for Life & Non-life insurance; Appraisal of growth of insurance in India.

Life Insurance – Concept; Public & Pvt. Sector companies in India – their products, schemes & plans; Documentation – Forms, Certificates & claim settlement documents; LIC Act 1956 – An overview.

General Gnsurance – Concept, Types; Public & Pvt. Sector companies in India – their products, schemes & plans; Documentation – Forms, Certificates & claim settlement documents; General Insurance Business Nationalization Act 1972 – An overview, Motor Insurance-An overview.

Distribution channel in Insurance – Introduction. Individual Agents-Appointment. Functions, Code of conduct and remuneration; Eligibility, Functions, Code of conduct and remuneration of corporate agents and brokers, Weaknesses in Distribution channels in India and suggestions for improvements, Prerequisites for obtaining a license, conditions for license and cancellation of license.

Suggested Readings:

1. Insurance management – Sharma, Butterflag Publication
2. Insurance – Fundamentals, Procedure & Environment – B.S. Bodla; Garg and Karampal, Deep & Deep Publications
3. Law Relating to Fire Insurance – Bakerwelford, A.W. & W.W.Otter Bany, Butterworth & Co. Ltd., London

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SFM- 308: Equity Research Analysis

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objective: The objective of this course is to provide basic knowledge to students regarding the theory and practice of equity research analysis.

Course Outlines:
Equity Research: Meaning, Scope and Importance of equity research, components of equity of a company, types of financial instruments available for equity investments.

Financial Statement Analysis: Evaluating past, current and projected conditions and performance of the firm using techniques like horizontal analysis, vertical analysis and ratio analysis.

Company Analysis: Introduction, Forecasting using Earnings model, market share approach, profit-margin approach, regression and correlation analysis in forecasting revenues and expenses, trend analysis, decision trees, projecting dividends and applied stock valuation.

Technical analysis: Fundamentals of technical analysis, basic assumptions, Dow Theory, charts Technical trading rules, confidence index RSA, RSI, Moving average analysis.

Portfolio Analysis: meaning and importance of portfolio management, risk in case of two security portfolio, mean variance criteria, risk diversification, selection of best portfolio.

Suggested Readings:

1. Investment Analysis and Portfolio management, Prasanna Chandra, TMH - 2nd Edition, 2005
2. Investments, Zvi Bodie & Mohanty, TMH -6th Edition, 2005
3. Investment Management, VK Bhalla (S.Chand & Co)
4. Security Analysis & Portfolio Management, S.Bhat, Excel Books.
5. Investment Analysis & Portfolio Management, Reilly 8th Edition, Cengage Learning.
6. Security Analysis & Portfolio Management, Fisher and Jordan, 6th edition, Pearson education.
7. Securities Analysis & Portfolio Mgmt, V.A. Avadhani, Himalaya Publishing House.
8. Financial Management, I.M. Pandey, Vikas Publishing House.

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SFM- 309: Bank Management

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objectives: The basic objective of this course is to apprise the students with the banking law and practice and develop an understanding of various facets of banking.

Course Contents

Bank-Concept, Classification (Nationalized, Private, Cooperative, Rural etc) their objectives & functions, organization structures; Bank Management-Concepts, Function, Importance.

Evolution of Banking Law; Main provisions of Banking Regulation Act, 1949; and RBI Act, 1934 and Negotiable Instruments Act, 1881.

Securities for Bank Advances: Forms of securities and precautions taken by Banks in accepting these securities.

Guarantees : Contract of Guarantee and contract of indemnity, Guarantee as Banker's Security. Writing Reports in Bank visits; Prevailing practices in Banking – Case Studies. Banker Customer Relationship; Contemporary Issues in Banking : NPA and Capital Adequacy in Indian Banks.

Risk Management in Banks- Techniques, Importance; RBI-Organization, Functions, regulation, latest guidelines by RBI central, Basel-I and Basel-II. Guidelines for banking in India.

Marketing management in banks: marketing planning, market segmentation, the art of customer service and product strategy.

Technology management in banks: RTGS transaction and security features; management information system, building data centers and database management.

Suggested Reading:

1. Gulshan, S.S. : Law and Practices of Banking in India.
2. Davr, S.R. : Law and Practice of Banking.
3. Tandon, H.L. : Banking Law & Practice in India.
4. Varshney, P.N.: Banking Law and Practice. Sultan Chand & Sons
5. Cox, David: Elements of Banking; John Murray, London.
6. General Bank Management, Indian Institute of Banking and Finance, Mcmillan, 2005
7. Mehta, R.R.S. : Fundamental of Banking; Himalaya Publishing House Co., New Delhi.
8. Nigam, B.M.L. : Banking Law and Practive, Konark Publishers, Delhi.

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SMM- 310: Services Marketing

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Outlines:
Growth of Service Sector in a developing country like India- Trends and Reasons. Services- Meaning, Nature and Characteristics. Goods- Service Categorization. Problems Associated with Marketing of Services on account of unique characteristics of Services. Overcoming problems associated with services marketing.

Service Marketing Environment. Service Marketing Mix- A brief introduction to the concepts of product, price, place, promotion, people, physical evidence, process and productivity.

Service Management Triangle- a study of the concepts of internal marketing, external marketing and interactive marketing.

Service Quality- concept and prominent models. Service Recovery- concept and principles. Relationship Marketing in services. Service differentiation and positioning. Controlling the service marketing efforts.

Application of services marketing- Banking Services, Insurance Services, Tourism Services and Health Services.

Suggested Readings

- Zeithmal, Services Marketing, TMH
- Cristopher Lovelock, Services Marketing, Pearson Education
- Harsh Vardhan Verma, Services Marketing

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SMM- 311: Consumer Behavior

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course outlines:

Consumer Behaviour- Meaning, Nature, Scope and Significance of its study. Consumer Research: Role of Consumer Research, The Consumer Research Process.

Consumer Decision Making Process- A detailed study of various stages and their marketing implications.

Psychological Factors Influencing Consumer Behaviour- A detailed study of the concepts, theories and principles of Perception, Learning, Motivation, Personality, self concept and Attitude and their marketing implications.

Group influences on consumer behaviour- A detailed study of the influences of Family and Reference Groups and their marketing implications.

Impact of Culture, Sub-Culture and Social Class on the consumer behaviour.

Communicating with consumers. A study of the concepts of Opinion Leadership and Diffusion of Innovation along with their marketing implications.

Suggested Readings:

1	Fred, D. Reynolds &	: Consumer Behaviour
2.	Schiffman, Kanuk	: Consumer Behaviour
3.	Rogerm D. Blackwell, James David T. Kollat	: Cases in Consumer Engel F. and Behaviour
4.	Wilhelms and Henimeri	: Consumer Economics. Principles and Problems
5.	Flemming, Hanson	: Consumer Choice
6.	Stuart Henderson, Britt	: Consumeer Behaviour in Theory and in Action
7.	Ptrer, D. Beneet and Harold, H. Kassarijian	: Consumer Behaviour
8.	Rom, J Markin	: The Psychology of Consumer Behaviour
9.	Assael, H.	: Consumer Behaviour & Marketing Action, Ohia, South Western, 1995
10.	Engle J.F. etc.	: Consumer behaviour, Chicago, Dryden Press, 1993
11.	Howard, John A. etc.	: Consumer Behaviour in Marketing Englewood Cliffs, New Jersey, Prentice HallInc.., 1989.

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SMM- 312: International Marketing

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Outline:

International Marketing: Definitions, nature, scope and benefits of international marketing, Domestic marketing versus international marketing. EPRG framework, Process of international marketing and emerging opportunities in international marketing, International Marketing Environment, WTO framework, International Marketing planning and selection, International Markets Segmentation, Basic modes for entry. International marketing mix: planning the product strategy, branding, packaging, product warranties and services; pricing strategies, methods of financing and means of payment, International advertising strategy, international distribution channels, selecting distribution channels.

References:

1. Sak Onkvisit and John Shaw : International Marketing (Analysis and strategy), PHI, N.Delhi.
2. Vern Terpestra and Ravi Sarathy: International Marketing, Thomson.
3. Philip R. Cateora, John L Graham and Prashant Salwan: International Marketing, Tata McGraw Hill.
4. Rakesh Mohan Joshi: International Marketing, Oxford.
5. P.K. Vasudeva: International Marketing, Excel Books.

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SMM- 313: Retailing Management

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Objective: This course is aimed at providing students with a comprehensive understanding of the theoretical and applied aspects of retail management.

Course outlines: Retailing- Meaning, Scope and importance of retailing in the economy, functions and classification of retailers. The concept of Organized Retailing- issues and challenges in organized retailing. Retail Evolution & Growth in Indian Context. The wheel of retailing. Understanding the retail customer- the need for studying consumer behaviour, factors influencing the retail shopper, the consumer decision making process. Store location- types of retail locations, steps involved in choosing retail location, important factors for choosing a location. Store layout and Design: store layout- key considerations, importance of layout and steps for designing layout. Merchandise Assortment Planning- concept, planning tools for merchandise management, organizing the buying process, aims and methods of controlling merchandise. Pricing the merchandise- methods and factors affecting the pricing decisions. Retail promotional strategies. Role of Technology in Retailing. Customer Relationship management in Retailing.

1. **Suggested Readings:**
   2. Roger Cox and Paul Brittain: Retailing- An Introduction, Pearson Education.
   3. Barry Berman and Joel R. Evans: Retail Management- A Strategic Approach, Pearson Education.
   4. Swapna Pradhan: Retailing Management- Text & Cases, The McGraw-Hill Companies.
   5. Michael Levy, Barton A Weitz and Ajay Pandit: Retailing Management, The McGraw-Hill Companies.
   6. Arif Sheikh and Kaneez Fatima: Retail Management, Himalaya Publishing House.
   7. Chetan Bajaj, Rajnish Tuli and Nidhi Srivastava: Retail Management, Oxford University Press.

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SMM- 314: Rural Marketing

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Objective: Course objective is to acquaint students with the complexities of Marketing in Rural Areas.

Course Outline:

Rural Marketing-Definition, Nature and Scope. Rural Markets-characteristics, importance and challenges & potential in rural markets. Rural Marketing Environment. Understanding rural consumers- buying behaviour models , factors affecting consumer behavoiour , buying process. Rural Market Research- meaning, sources for conducting rural marketing research, rural market research process, limitations and challenges in rural marketing research. Rural Markets and STP(segmenting ,targeting and positioning). Rural Marketing Mix: Product strategy- product concepts and classification, new product development, product life cycle, packaging and branding in rural India. Pricing strategy- objectives, factors affecting pricing, methods of pricing. Communication strategy- objectives, methods and challenges in rural communication. Rural Distribution strategy- distribution channels and organizing personal selling in rural markets. Role of IT in rural marketing(e-Choupals etc.).

Suggested Readings

1 Balram Dogra and Karminder Ghuman: Rural Marketing-Concepts& Practices, Tata McGraw-Hill Publishing Company Ltd.
2 Awadhesh Kumar Singh and Satyaprakash Pandey: Rural Marketing-Indian Perspective, New Age International (P) limited Publishers.
3 Pradeep Kashyap and Siddhartha Raut: The Rural Marketing, Biztantra.
4 C.S.G Krishnamacharyulu and Lalitha Ramkrishnan: Rural Marketing- Text & Cases, Pearson Education Asia.
5 K.S.Habeeb-Ur-Rahman: Rural Marketing In India, Himalaya Publishing House.
6 Ramkishen. Y: New Perspectives In Rural and Agricultural Marketing, Jaico Publishing House.
7 T.P.Gopalaswamy: Rural Marketing, Vikas Publishing House Pvt. Ltd.

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SHRM- 315: Labour Legislation in India

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Outlines:

Introduction to law and the Indian legal system; Legal environment of business; Introduction to labour legislation; Labour Laws to regulate terms and conditions of work (Factories Act 1948, ,Industrial Employment(Standing Orders) Act 1946; Payment of Gratuity and Misc. Provision Act 1982,Employee Provident Fund Act, 1965); Wage and social security (Payment of Wages Act 1936, The Minimum Wages Act 1948, Workmen Compensation Act 1932,Maternity Benefit Act, Payment of Bonus Act 1956,Child Labour(Abolition and Prohibition) Act, Employee State Insurance Act 1981, Apprentice Act 1961) ; Trade and labour union laws(Industrial Disputes Act 1947;Trade Union Act 1926).

Globalization and its impact on Work; Employers' Rights, Workers' Rights and the State in the global economy as realised by the Domestic Labour Laws; Labour standards in Indian Trade Law; United Nations Organisation, and its functions in the context of the United Nations Charter.

Suggested Readings:

- P.C. Tripathi, Personnel Management & Industrial Relations , Sultan Chand & Sons,2002
- C.B. Mamoria, Satish Mamoria, S.V. Gankar, Dynamics of Industrial Relations,Himalaya Publishing House,2008
- Jayashree Kulkarni, Hiremathi ,Participative Management and Industrial Performance,Anmol Publications Pvt Ltd , 2007
- B.D. Singh , Industrial Relations and Labour Laws, Excel Books, New Delhi, 2008
- B.D. Singh , Industrial Relations, Excel Books, New Delhi, 2008
- B.D.Singh, Labour laws for manager, Excel Books, New Delhi, 2007
- L. Mishra, Case Laws on Industrial Relations, Excel Books, New Delhi, 2008.
- Sen – 'Industrial Relations in India', Macmillan India Ltd., New Delhi, 2008.

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SHRM- 316: Compensations Systems in Service Sector

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objectives: The course is designed to promote understanding of issues related to the compensation or rewarding Human Resources in the Corporate Sector, public services and other forms of organizations and to impart skills in designing, analyzing and restructuring compensation packages related systems, policies and strategies.

Course Outlines:
Compensation Defined, Goals of Compensation System, Compensation Strategy Monetary & Non-Monetary Rewards, Understanding the theory related to reward management, Understanding of wage differentials, Internal alignment: defining internal alignment, job analysis, job evaluation, person based structure: skill based structure, competency based structure. Determining External competitiveness: Defining competitiveness, Labour market factors, product market factors, organisation factors, Pay for performance plans: short term incentive plans, team incentive plan, long term incentive plans. Benefits options: legally required benefits, retirement and saving plans payment, life insurance, medical and medically related payment and miscellaneous benefits. Understanding and compensation packages; compensation of chief executives, senior managers, R & D Staff, etc. Statutory provisions governing different components of reward systems; Working of different institutions related to reward system like wage boards, pay commissions,

Suggested Readings:

1 Armstrong, Michel and Murlis, Helen. Reward Management: A Handbook of Salary Administration. London, Kegan Paul, 1988.
2 Henderson, Richard I. (2004). Compensation Management: Rewarding Performance. Prentice Hall of India Pvt. Ltd
3 Milkovich & Newman (2005). Compensation: Tata McGraw Hill, New Delhi, Eighth Edition.
4 Henderson I.Richard, Compensation management in a knowledge based world, Pearson Education, New Delhi, 9th edition.

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SHRM- 317: Management of Training and Development

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Outlines:

Training Process - an Overview; Role, Responsibilities and Challenges of Training Managers; Organization and Management of Training Function; Training Needs Assessment and Action Research; Instructional Objectives and Lesson Planning; Learning Process and Learning Cycle and Learning Curve; Training Climate and Pedagogy; Developing Training Modules;Training Methods and Techniques; Facilities Planning and Training Aids; Training Communication; Training Evaluation; Designing and Managing Assessment – Centres – Prerequisites – Tools used – 360 degree feedback as an instrument in assessment center Training and Development in India.

Suggested Readings:

- Beunet, Roger ed. Improving Training Effectiveness. Aldershot, 1988.
- Buckley R & Caple, Jim. The Theory & Practice of Training. London, Kogan& Page. 1995.
- Lynton, R Pareek, U. Training for Development. 2nd ed. New Delhi, Vistaar,1990.
- Pepper, Allan D. Managing the Training and Development Function. Aldershot,Gower, 1984.

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SHRM- 318: Organizational Change and Intervention Strategies

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objective:
The objective of this paper is to make the students learn about the organizational change
And prepare them as change facilitators using the knowledge and techniques of
Behavioral science.

Course Outlines:
Introduction Nature and meaning of organizational Change, forces for organizational change, types of change, models of OC, Lewins Model, System Model of change, Registance to change, Building support for change.
Organizational Development: Meaning, Characteristics of O.D. steps in Organization Development Process, values, Assumptions and beliefs in O.D. Ethics of O.D. Professionals. Future of Organization Development. Intervention Strategies: O.D. Interventions; An overview; Definition, Nature, major families of O.D. interventions, T-Groups (sensitivity Training Group), Life and career Planning; Transactional Analysis, Behaviour Modeling.

Team interventions: Process Consultation, Team Building family Group; Techniques used in team-building: Role analysis technique, Role negotiation techniques, Intergroup team building interventions, third Party peace making interventions.
Survey feedback, system 1-4T, self-managed teams; MBO and appraisal, quality circle; quality of work projects, works redesign Grid O.D. phases, 4.5.6.

Suggested Readings:

1. Abad, Ahmad. etc. : Developing Effective Organization. New Delhi, Sri Ram
2. Center for Industrial Relations, 1980.
3. De Nitish. Alternative Designs of Human Organizations. London, Sage, 1988.
4. . French W.L. & Bell, C.H. : Organization Development: Behaviour Science Intervention for organization improvement. Fifth Ed. Prentice Hall.
5. 2. Dalton G.W; Lawrence, : Organization Charge and Development, Richard D. Irwin, Inc and the Dorrey Press Hornewood Iiions
6. 3. French W.L. & Bell, C.H. : Organization Development:
7. Zawack; R.A. Theory Practice and Research. Richard D. Irwin Inc. (Univ. Book Stall, New Delhi).
8. 4. Kreither, R & Kinicki, : Organizational Behaviour (fifth eds.) Irwin McGraw Hill.
9. Angelo
10. 5. Madhukar Shukla : Understanding Organizations: Organizational Theory and Practice in India. Prentice Hall New Delhi.
11. 6. Katz, D. & Khan, R.K. : The Social Psychology of Organizations John Wiley & Sons.
12. 7. Daniel Robey & Steven : Organization Development: Progress and Perspectives
13. Altman, Macmillan Publishing Cop.
14. 8. Wexley, K.N. Yulk, A.A : Organizational Behaviour &Personnel Psychology Surjeet Publication
15. 9. Moothead, G. & Griffin, :. Organizational Behaviour:
16. 10. New Strom, J.W& : Organization Behaviour Human: Behaviour at Work, 10th Ed. Tata McGraw Hill.

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SHRM- 319: Interpersonal Influence and Leadership in Services Sector

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objective: The purpose of this course is to enhance the leadership skills of students and to develop insight into interpersonal dynamics through sensitivity training and experience based methods of learning

Course Outlines:

Nature and significance of leadership; Determinants of effective leadership; Trait theory of leadership. Behavioural styles in leadership role; Likert's management system; Managerial grid; Followers as determinants of effective leadership, life cycle theory. Situation as determinants of leadership, Fielder's contingency theory; Vroom and Yetten model, Path-goal theory; Attribution theory; Charisma and transformational leadership Interpersonal communication: Interpersonal awareness and feedback process: Interpersonal trust: Group decision making: Group synergy: Team building; Fundamental interpersonal relations orientation (FIRO-B): Carrier roles and identity: Competition and cooperation. Communication, Johari window and Transactional analysis; T-groups theory and laboratory methods; Basic and advanced leadership skills.

Suggested Readings:

1. Hughes, Richard L.; Ginnett, Robert C. and Curphy, Gordon J., *Leadership: Enhancing the Lessons of Experience*, Singapore: McGraw Hill.
2. Yukl G.A, *Leadership in an Organization*, New Jersy: Prentice Hall.
3. Pareek, Udai and Rao, *Behavioral Process in an Organization*, New Delhi: Oxford IBH.DuBrin, Andrew J., *Leadership: Research Findings, Process, and Skills*, New Delhi, Bizatantra.

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MBA (Service Management) Semester-IV

Compulsory Papers

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
SM-401	Entrepreneurship Development	40	60	100
SM -402	Viva-Voce (Comprehensive)	-	100	100
SM- 403	Project Work	-	100	100

Optional papers (Candidates would be required to select any Three papers from Major area of specialization and Two papers from any Minor area of specialization.)

Finance

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
SFM-404	Risk Management and Insurance	40	60	100
SFM-405	International Financial Markets	40	60	100
SFM-406	Bank Credit Management	40	60	100
SFM-407	Fund Management Services	40	60	100
SFM-408	Portfolio Management	40	60	100
SFM-409	Treasury Services Management			

List of Optional Papers of various specializations

Marketing

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
SMM- 410	Brand Management	40	60	100
SMM -411	Service Marketing Communication	40	60	100
SMM -412	Strategic Marketing	40	60	100
SMM -413	Marketing for Non Profit Organization	40	60	100

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HRM

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
SHRM-414	Cross Cultural and Global Management	40	60	100
SHRM -415	Competency Mapping and Development	40	60	100
SHRM -416	Human Resource Development Strategies and Systems	40	60	100
SHRM -417	Industrial Relations and Labour Policy	40	60	100

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SM-401 Entrepreneurship Development

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objective: To provide theoretical foundations of entrepreneurship development and to give an overview of who the entrepreneurs are and what competences are needed to become an Entrepreneur.

Course Outlines:

The Entrepreneurial Perspective: concept, Nature and Importance of Entrepreneurs; the Individual Entrepreneur; the Entrepreneurial and Intrapreneurial Mind; Entrepreneurship development and Economic development; Entrepreneurial Success & Failure: reasons& remedies.

Creating, Starting & Financing the venture: Creativity & the Business Idea; Legal issues for the Entrepreneur, drawing Functional Plans: Marketing Plan, the Organizational Plan, the financial Plan; Sources of capital for new business; Entrepreneurial Strategy.

Institutional Support & Project Management: Institutional Support for Entrepreneurs; project Planning & Appraisal; International Entrepreneurship opportunities; women Entrepreneurship.

Suggested Readings

Dynamics of Entrepreneurship Development; Vasant Desai
Entrepreneurship: New Venture Creation; David H. Holt
Entrepreneurship Development New Venture Creation; Satish Taneja, S.L.Gupta
Entrepreneurship: Strategies and Resources; Marc J. Dollinger
Culture of Entrepreneurship; Brigitte Berger.
Innovation and Entrepreneurship; Peter F. Drucker
Entrepreneurship; Robert D. Hisrich, Michael P. Peters, Dean A. Shepherd
Entrepreneurship as Strategy; G. Dale Meyer, Kurt A. Heppard
New Vistas of Entrepreneurship: Challenges & Opportunities; A. Sahay, M.S.Chhikara
Entrepreneurship and Small Business Management; Siropolis
The Entrepreneurial Connection - Gurmeet Naroola
Corporate Entrepreneurship ;Vijay Sathe

SM-402 VIVA-VOCE (Comprehensive)

Max. Marks: 100

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SM-403 PROJECT WORK

Max. Marks: 100

SFM-404 RISK MANAGEMENT AND INSURANCE

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Objectives: This course will enable students to understand the concepts and principles of risk management.

Course Outline: Overview of risk, risk identification, evaluation, assessment and management. Risk analysis: exposure of physical assets, exposure to legal liability. Risk management, risk control. Risk aversion and management by individual and corporations, cost control, legal liability for injuries. Universal banking and its impact on risk management. Corporate governance in bnaking.

Categories of interest rate risk, measurement and management of interest rate risk, assets- liabilities management, gap analysis.

Value at risk (VAR) measure, Historical simulation, Model building approach, Linear approach, Quadratic model. Monte carlo simulation, Stress testing and Back testing.

Risk financing techniques: Risk financing methods Retention-funding arrangements, captive insures, finite risk plans. Transfer-insurance transfer: granted cost insurance, experience rated insurance. Hedging instruments of trade credit and other non-insurance risk financing transfers. Consideration affecting choice between retention and transfer.

Suggested Readings

1. Risk Management & Insurance, 8th Edition, by C. Arthur William, Michel L. Smith, Peter. C. Young.
2. Risk Management & Insurance, 2nd Edition, by Harrington, Tata Mc-Graw Hill

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SFM-405 INTERNATIONAL FINANCIAL MARKETS

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Introduction to International Financial System: Brettonwood conference and afterwards; European monetary system. Fixed vs Floating Exchange Rate regimes.

Creation of Euro Currency Markets: Creation of Euro Dollar — Emergence of Global Currency Markets — Size and Structure of Europe and Asian Markets — Transaction — Regulatory systems — Major instruments

International Financial Markets and Instruments: International capital and money market instruments and their salient features; Integration of financial markets and approach; Arbitrage opportunities; Role of financial intermediaries.

International Money Market Instruments and Institutions: GDRs, ADRs, IDRs, Euro Bonds, uro Loans, Repos, CPs, derivatives, floating rate instruments, loan syndication and Euro deposits; IMF, IBRD, Development Banks.

Global Shopping for funds and Investments : Comparison of Domestic, Foreign and Euro Currency Markets for Lending and Investment — Forex Risk — Interest Rate Parity — Cover deals — Using global markets for Hedging — Arbitrage — speculation — Cost comparisons.

Suggested Readings:

1. Buckley, Adrian: Multinational Finance, Prentice Hall of India, New Delhi
2. Henning, C.N., Piggot, W. and Scott, W.H: International Financial Management, Mc Graw Hill. mt. Ed.. New York.
3. Maurice, Levi: International Finance, McGraw 1-lill, Int. Ed., New York.
4. Rodriqufe, R.M and E.E Carter: International Financial Management, Prentice Hall of India, Delhi.
5. Shaprio, A.C: Multinational Financial Management, Prentice Hall of India, New Delhi.

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SFM-406 BANK CREDIT MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objective: the objective of this paper is to make the students learn about the nature components and functioning of international financial markets.

Course Outlines:

Bank Credit Management: Principles and Objectives. Need and components of credit policy of banks. Methods of granting Credit: Cash credit, Overdraft, Bills discounting, Letter of credit and others.

Regulatory framework of Bank Credit: Institutional structure, Need for statutory reserves:

CRR and SLR. Prudential norms: Capital Adequacy of Banks, The new Basel Committee norms. RBI observations on Bank Credit Sanctions. Impact of Priority sector lending. Unit-Ill

Bank Credit: Components and Administration. Loans and Advances- Secured and Unsecured advances, Banker's Lien, Mortgage: Types, Rights and Liabilities of Mortgagee of Immovable property. Procedure to provide advances against collateral security.

Bank Credit Monitoring, Post disbursal follow up and compliance parameters. NPAclassification, impact and consequences. Recovery measures in banking sector. Role of Debt Recovery Tribunal aenforce Unit-V

Credit Risk- concept, ratings of credit risk, different types- exposure risk, recovery risk,

Collateral risk, guarantee risk, legal risk and others. Credit risk management and Asset- Liability management.

Suggested Readings:

I. Bank Credit Management- G.Vijayaragavan, HPH
2. Elements of Banking and Insurance- Jyotsna Sethi, PHI
3. Banking Theory and Practice- P.K.Khurana, HPH
4. Banking- N.T. Somashekhar, New Age . .
5. Introduction to Banking-V. Iyenger, Excel Books
6. Bank Financial Management- Indian Institute of Banking and Finance, Taxmann

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SFM-407 FUND MANAGEMENT SERVICES

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Contents:

Introduction to funds management: Different types of funds and their characteristics- conventional funds, pension funds, mutual funds and unit trusts, collective investment schemes (OEICS), tracker/ index funds, hedge funds, money market funds. Examining investment products and their applications-equities-domestic and overseas, bonds, commodities, derivatives futures

Fund management process: Theory behind fund management; Role and responsibilities of fund managers; Planning for optimal portfolio returns- setting investment objectives, the constraints of the fund manager, strategic asset allocation to enhance portfolio performance.

Strategies to maximize fund performance: The mandate definition, how and why benchmarks must be specified; Effective management for ultimate results- tactical asset allocation, securities selection: Controlling the process- performance measurement, attribution analysis.

Investment strategies of funds managers: Asset class and geographic diversification, active strategies, passive strategies, top down approach, bottom up approach, sector rotation style, growth investing, value investing, momentum style, small capitalization style, comparing fund management styles.

Fixed income fund management and Equity fund management: Asset allocation within the investment decision making process- Determining clients aims and objectives, Asset/ liability management, Strategic and tactical asset allocation, the decision making levels.

Suggested Readings

1. Portfolio Management in Practice by Christing Bretani, Elsevier
2. Investments by Bodie, Kane and Marcus, 6th Ed., Tata McGraw Hills, N.D.
3. Financial Market Analysis by David Blake
4. Bond Markets Analysis & Strategies by frank J. Fabozzi, 5th ed., Pearson Delhi

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SFM-408 PORTFOLIO MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objective: The objective of this course is to provide basic knowledge to students regarding the theory and practice of portfolio management.

Course Outlines

Introduction to portfolio management: measurement of portfolio return and risk, process of portfolio management, Modern portfolio theory, Asset allocation decision, Markowitz diversification model.

Testing the efficient frontier: the relationship between the leveraged and unleveraged portfolios, constructing the efficient frontier, Sharpe Index model, determination of corner portfolio.

Capital market theory: Testing the Capital Asset Pricing Model, Arbitrage Pricing Theory.

Portfolio performance evaluation : Sharpe, Treynor & Jensen measure. Portfolio revision: Active and passive strategies & formula plans in portfolio revision.

Managed Portfolios and Performance measurements: Classification of managed portfolios, Mutual funds- types, performance evaluation of mutual funds, functions of Asset Management Companies.

Suggested Readings:

1. Investment Analysis and Portfolio management, Prasanna Chandra, TMH - 2nd Edition, 2005
2. Investments, Zvi Bodie & Mohanty, TMH -6th Edition, 2005
3. Investment Management, VK Bhalla (S.Chand & Co)
4. Security Analysis & Portfolio Management, S.Bhat, Excel Books.
5. Investment Analysis & Portfolio Management, Reilly 8th Edition, Cengage Learning.
6. Security Analysis & Portfolio Management, Fisher and Jordan,6th edition, Pearson education.
7. Securities Analysis & Portfolio Mgmt, V.A. Avadhani, Himalaya Publishing House.

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SFM-409 TREASURY SERVICES MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines

Treasury Management: meaning, objectives, significance, functions and scope of treasury management services. Relationship between treasury management and financial management. Role and responsibilities of chief finance executives.

Tools/ instruments of treasury management, internal treasury controls, environment for treasury management. Role of information technology in treasury management.

Liquidity management: regulation, supervision or control of treasury operations. Implications of treasury for international banking operations.

Suggested Readings

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SMM-410 BRAND MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Product Management: Product concepts and levels, Product mix and line decision, Managing line extensions, Product life cycle and marketing strategy implications, New Product Development Process. Understanding Brands: Strategic relevance of branding, brand hierarchy and brand name plans, Brand creation, Brand Personality, Brand image, Brand identity, Brand positioning, Brand equity and brand extensions, Brand portfolio, Managing brands and brand revitalization. Financial aspects of branding, Branding in different sectors: Customer, Industrial, retail and service brands.

Suggested Readings:

1. Keller, Kevin lane: Strategic Brand Management, Prentice Hall.
2. Kepferer, J.N.: Strategic Brand Management, New York, Free Press.
3. Mathur , U.C. : Product and Brand Management, Excel Books.
4. Verma, H.V.: Brand Management.

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SMM-411 SERVICE MARKETING COMMUNICATION

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Introduction to Communication: Nature, process and importance. Introduction to marketing communication, Role of marketing communication in service sector, The marketing communication mix in service sector: Sales promotion, Advertising, Personal communications, Publicity and Public relations. Instructional materials and corporate design. Opportunities and Challenges in communicating services, setting communication objectives.

Creative Strategy planning and development: Finding the big idea, creative techniques, creative execution in advertising: Message, appeals and execution styles in service industry, Celebrity endorsements in service advertisement. Creative execution in print advertising of services: Layout, headlines, visuals, copy.

Creative execution of service advertisements on television. Creative execution of service advertisements on internet: Advertising and sales promotion on internet: Banner advertising, search engine advertising, Developing an integrated marketing communication strategy.

Suggested Readings:

1. Kruti Shakti and Alan D'Souza- Advertising and Promotions - An IMC perspective, Tata Mcgraw Hill.

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SMM-412 STRATEGIC MARKETING

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Objectives: This paper intends to provide a more externally oriented and proactive approach of marketing to budding managers.

Course Contents

Strategic Marketing Management- Meaning, Nature and Scope. Difference between strategic marketing and marketing management. Tasks and principles of strategic marketing. Business Strategy- Meaning and Components.

External Analysis- Customer Analysis, Competitor Analysis, Market Analysis and overall environmental analysis.

Internal Analysis- A detailed study of various financial and non-financial techniques. Choice of a strategic option using prominent portfolio analysis techniques such as BCG, GE, Shell Matrix etc.

An analysis of prominent strategies: Differentiation Strategy, Low Cost Strategies, Focus Strategies, Preemptive Move, Growth and Diversification Strategies and Global Strategies. Obtaining Sustainable Competitive Advantage.

Implementation and Control of Marketing Strategies- Various Issues and Techniques.

Suggested Readings

- Aaker, D, Strategic Market Management, Wiley Publications.
- Cravens and Piercy, Strategic Marketing, New Age Publications
- Graeme Drummond, John Ensor, Strategic Marketing-Planning and Implementation, Butterworth-Heinemann.

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SMM-413 MARKETING FOR NON-PROFIT ORGANIZATION

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outline

Non-profit organization, starting and improving non-profit organizations; Non-profit institutions in Indian market Context e.g. Public services, hospitals. Setting Marketing Objectives, Analyzing Socio-Cultural Environment affecting Non-profit Organizations, Analyzing beneficiary Behaviour. Strategic planning for non-profit Organizations; targeting; segmenting and positioning nonprofits, Market Segmentation and related issues, elements of marketing mix, product and service decisions, pricing decisions, distribution and delivery strategy. Products and services for non-profit organizations; Communication strategies for non-profit organizations; Advertising and personal persuasion ; Ethics of non-profit organizations. Role of institutional image, promotional and public related strategy, monitoring and review of marketing programmes.

Suggested Readings:

1. Marketing Non-profit Organization : S.M. Jha, Himalya Publishing House.
2. Non-profit Organization : Kotler

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SHRM-414 CROSS CULTURAL AND GLOBAL MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Human and Cultural Variables in Global Organisations; Cross Cultural Differences and Managerial Implications; Cross Cultural Research Methodologies and Hofstede's Hermes Study; Structural Evolution of Global Organisations; Cross Cultural Leadership and Decision Making; Cross Cultural Communication and Negotiation; Human Resource Management in Global Organisations; Selection, Source, Selection Criteria for International Assignment; Compensation and Appraisal in Global Perspective, MNG and Compensation System.

References

- Adler,NJ. International Dimensions of Organizational Behaviour. Boston, Kent Publishing, 1991.
- Bartlett,Cand Ghoshal, S.Transnational Management:Text, Cases and Readings in Cross Border Management. Chicago, Irwin, 1995.
- Dowling. P J. etc. International Dimensions of Human Resource Management 2nd ed. California,Wadsworth, 1994.
- Hofstede,G. Cultures Consequence: International Differences inWork Related Values. London, Sage, 1984.
- Marcic, D and Puffer, S M. Management International: Cases, Exercise and Readings. St. Paul,West Publishing, 1994.
- Mead, R. International Management: Cross Cultural dimensions. BlackWell, Camb., Mass., 1994.
- Mendenhall, M. etc., Global Management. Cambridge Massachusetts.,Blackwell, 1995.
- The Global Challenge- framework for international human resource management, Evans, Pucik, Barsoux, Tata McGraw-Hill Irwin.
- International Human Resource Management-Peter J Dowling,Denice E Welch, Cengage Learning
- International Human Resorce Management, K Aswathappa, Sadhna Das, Mc Graw Hill Companies
- International Human Resource Management - Monir H Tayeb –Oxford University Press - 2005.
- International Human resource Management – PL Rao, Excel Books

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SHRM-415 COMPETENCY MAPPING AND DEVELOPMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Introduction: History & Origin of Competency, KSA v/s Competency, Reasons for Popularity of Competency, Views Against Competency, Definitions, Components of competency, Skill, Knowledge & Motive, Trait & Self-Concept, Iceberg Model of Competency, Competency Categories: Threshold Competencies, Differentiating Competencies, Generic or Key Competencies, Functional or Technical Competencies, Leadership or Managerial Competencies; Competency Mapping: Definition, Important Aspects, Process of Competency Mapping; Steps in Developing Competency Model; Competency models: Leadership and managerial competency models,5 level Competency Based Model, HR Generic & Specific Competency Model, Technical and Behavioural Competency Model, Supervisory Generic Competency Model, Job Based Competency Model ; Competencies Assessment and uses : Strategies to address the gaps, Applications of Competency Mapping: Competency based Recruitment and Selection, Competency Based Performance Appraisal, Competency Based Succession & Career Planning, Competency Based Compensation and Benefits, Competency based Training & Development.

References

- Competency Mapping by Seema Sanghi , Sage Publications
- Competency Mapping by R K Sahu, Excel Publications.
- Competence at Work, by Spencer and Spencer, American Society of Training and Development.
- Organizational Behaviour - Human Behavior at work – by John.W.Newstrom and Keith Davis Tata McGraw Hill, l1/e, 2003.
- Human Relations in organizations. Robert N. Lussier, 6th edition, Mc-Graw Hill Education.
- Development Management Skills, Whetten & Cameron, 7th Ed. Pearson, PHI.
- Understanding OB – Udai Parek, Oxford University Press.
- Theories of Personality – Calvin S Hall Et Al, Wiley Publication
- Seven Habits of Highly Effective People, Stephen R Covey, Simon & Schuster
- Training in Interpersonal Skills – tips for managing People at work, Stephen Robbins,Et al, Pearson, PHI.

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SHRM-416 HUMAN RESOURCE DEVELOPMENT STRATEGIES AND SYSTEMS

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

HRD Introduction: Introduction of HRD Methods, Changing paradigm of HRD -concepts-scope-Objectives, principles, framework, subsystems. Contribution of its subsystems to HRD goals. Planning and organising HRD system-principles in designing HRD system – Linkage between HRD and organisational growth – Simultaneous Vs Sequential introduction of HRDS – HRD models-HRD in Indian industries- Challenges of Future HRD Professionals – Roles and competency requirements of HRD Professionals. Framework of HR-The strategic HR Framework Approach, The integrative framework, Human Capital Appraisal Approach, HRD Score card approach , P-CMM Approach. HRD for Workers; HRD Intervention; HRD Approaches for coping with Organisational Changes. Future of HRD in India. Case Study of HRD Implementation in Indian Organisations.

Suggested Readings

- Dayal, Ishwar. Successful Applications of HRD. New Delhi, New Concepts,1996.
- Dayal, Ishwar. DesigningHRDSystems. New Delhi, Concept. 1993.
- Kohli, Uddesh & Sinha, Dharni P. HRD - Global Challenges & Strategies in 2000 A. D. New Delhi, ISTD, 1995.
- Maheshwari, B L.&Sinha, Dharni P. Management of Change Through HRD.New Delhi, Tata McGraw Hill, 1991.
- Pareek, U. etc. Managing Transitions : The HRD Response. New Delhi, Tata McGraw Hill, 1992.
- Udai Halder, Human Resource Development,Oxford Publications.
- Rao. T.V. Future of Human Resource Development, McMillan, India Ltd. 2003.

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SHRM-417 INDUSTRIAL RELATIONS AND LABOUR POLICY

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

OBJECTIVES:

Organizational Efficiency and performance are intricately interlinked with industrial relations.

This course is an attempt to appreciate the conceptual and practical aspects of industrial relations.

Course Content:

Industrial Relations - Definition ,Scope , Functions ,Limitations. Changing facets. Industrial Relations in India : Role of Government , Management ,Labor.

Trade Unions - Definition , Objectives , Functions . History of Trade Unionism . Factors Affecting growth of Trade Unions .Limitations of Indian Trade Unions . Trade unions Act 1926.

Participative management : Definition ,Scope, nature , works committees : joint Management Councils , shop Councils .Collective bargaining , Industrial disputes - Introduction. Forms ,causes and Remidies, Industrial disputes Act , Grievance Management ,Industrial relations and the Government National Commission on labor – Recommendations. ILO: Objectives, structure and procedure for admission as member.

References:

1 P.C. Tripathi, Personnel Management & Industrial Relations, Sultan Chand & Sons, 2002

2 C.B. Mamoria, Satish Mamoria, S.V. Gankar, Dynamics of Industrial Relations, Himalaya Publishing House,2008

3 Jayashree Kulkarni, Hiremathi, Participative Management and Industrial Performance, Anmol Publications Pvt Ltd , 2007

4 B.D. Singh , Industrial Relations and Labour Laws, Excel Books, New Delhi, 2008

5 B.D. Singh , Industrial Relations, Excel Books, New Delhi, 2008

6 B.D.Singh, Labour laws for manager, Excel Books, New Delhi, 2007

7 L. Mishra, Case Laws on Industrial Relations, Excel Books, New Delhi, 2008.

8 Sen – 'Industrial Relations in India', Macmillan India Ltd., New Delhi, 2008.

9 P.Subba Rao- Industrial Relations , Himalaya Publishing House ,New Delhi.

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MBA (Hons.) Semester-III

Compulsory Papers

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
HONS-301	Business Legislation	40	60	100
HONS -302	Total Quality Management	40	60	100
HONS -303	Summer Training	-	100	100

Optional papers (Candidates would be required to select any Three papers from Major area of specialization and Two papers from any Minor area of specialization.)

List of Optional Papers of various specializations

FINANCE

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
HFM-304	Security Analysis and Investment Management	40	60	100
HFM-305	Foreign Exchange Management	40	60	100
HFM-306	Financial Econometrics	40	60	100
HFM-307	Project Planning and Analysis	40	60	100
HFM-308	Fixed Income Securities	40	60	100
HFM-309	Management of Financial Markets and Institutions	40	60	100

MARKETING

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
HMM-310	Consumer Behaviour	40	60	100
HMM -311	Product and Brand Management	40	60	100
HMM -312	International Marketing	40	60	100
HMM -313	Retailing Marketing	40	60	100
HMM -314	Rural Marketing	40	60	100
HMM -315	Marketing Communication	40	60	100

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HRM

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
HHRM-316	Industrial Relations and Labour Policy	40	60	100
HHRM -317	Labour Legislation and Industrial Jurisprudence	40	60	100
HHRM -318	Management of Training and Development	40	60	100
HHRM -319	Global Human Resource Management	40	60	100
HHRM -320	Counseling Skills for Managers	40	60	100
HHRM -321	Management of Interpersonal Group Processes	40	60	100

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HONS-301: BUSINESS LEGISLATION

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outline:

The Indian Contract Act, 1872: Essentials of a Valid Contract, Void and Voidable Agreements, Performance of Contracts, Breach of a Contract and Its Remedies, Quasi-Contracts. The Sale of Goods Act. 1930: Formation of a Sales Contract. The Negotiable Instrument Act, 1881: Nature and Types, Negotiation and Assignment. Holder in Due Course, Dishonor and Discharge an Negotiable Instruments. The Companies Act, 1956: Types of Companies, Memorandum and Article of Association, Shareholders and Debenture Holders, Minority Protection, Winding-up. Consumer Protection Act: Consumer Rights, Exploitation of Consumer, Consumer Protection, Utility of Consumerism. Law of partnership: Definition and Nature of Partnership. Formation of Partnership. Rights, Duties and Liabilities of Partners. Dissolution of Partnership Firm. Cyber Laws.

Suggested Readings

- Avtar Singh. Company Law. 11th ed. Lucknow, Eastern,1996.
- Khergamwala, JS. The Negotiable InstrumentActs. Bombay, N.M.Tripathi,1980
- Ramaiya,A.Guide to the companies Act. Nagpur,Wadhwa,1992.
- Shah. S.M. Lectures on Company Law. Bombay, N.M. Tripathi,1990.
- Tuteja, SK Business Law For Managers, New Delhi, Sultan Chand, 1998.
- Aswathappa, K., 'Legal Environment of Business', Himalaya Publishers Ltd. - 2002.
- Gogna, P.P.S., 'A Text book of Mercantile Law', Sultan Chand and Company, 2007
- Gordon, K. Natarajan, 'Banking Theory, Law & Practice', Himalaya Publishers Ltd. -2002.
- Kapoor, N.D., 'Mercantile law', Sultan Chand and Co., 2000.
- Pillai.R.S.N, Bagavathi.V., 'Business Law', Sultan Chand and Co, 2000.
- Reddy, Appannaiah, & Prabhudev, 'Company Law and Secretarial Practice' – Himalaya Publishing House –2004.
- Saravanavel P. & Sumathi S., 'Legal Systems in Business', Himalaya Publishing House. -2002.
- Shukla .M.C., 'Mercantile Law', Sultan Chand and Co., 2007
- Tutesa, S.K., 'Business Law for Managers', Sultan Chand, New Delhi, 2001.
- Varsheney.G.K., ' Elements of Business Laws'., Sultan Chand & Co., 2003.

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HONS-302: TOTAL QUALITY MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Objective: The objective of this Course is to acquaint the students with the concept, techniques and field of total Quality Management.

Course Outlines:

The Quality Concepts and objective Core concepts of total quality management. Organization for Quality management quality related costs. Quality policy. TQM Gurus Ideas: W. Edward Deming, Joseph M. Juran, Philip Crosby Kaoru Ishikawa, Shigea Shingo, Yoshio Kando and William E. Conway.Quality in Design: Design objectives: Standardization Meaning, Aims, Principles and Value, Quality Control of Design. Product Reliability. Tools for Effective Product Development; Quality Function Deployment Matrix, Value Analysis Matrix, Failure Mode and Effect Analysis, Fault Tree Analysis.

Statistical Methods, for Quality Control in Manufacturing: Statistical Quality Control. Process capability Assignable and Unassignable causes, Capability Analysis. Control Charts basic procedure. Business Process Reengineering. Total Productive Maintenance. J.I.T. and Quality Audit and ISO 9000. Future of Total Quality Management in India.

Suggested Readings:

1. Bharat Wakhlu : Total Quality Excellence Through Organisation wide Transformation, Wheeler Publishing, New Delhi.

2. Bagchit, T.I.P.ISO 9000 : Concepts, Method and Implementation Wheeler Publishing, New Delhi.

3. SAMUEL, KHO : TQM Integrated Approach, Kogan Page Limited, London .

4. Helga Drummond : The TQM Movement UBS Publisher Dist. Ltd., New Delhi

5. Heide, J.D. : Industrial Process Control by Statistical Methods.

6. Lal H. : Total Quality Management

7. Fetter, R.B. : The Quality Control System.

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HONS-303: SUMMER TRAINING

Max. Marks: 100

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HFM- 304: SECURITY ANALYSIS AND INVESTMENT MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objective: The objective of this course is to impart knowledge to students regarding the theory and practice of Security Analysis and Investment management.

Course Outlines

Introduction: Concepts of investment- Financial and non-financial forms of investment, Objectives of financial investment, investment methods, Sources of investment information, Investment Instruments.

Analysis of risk & return: concept of total risk, factors contributing to total risk, systematic and unsystematic risk, default risk, interest rate risk, market risk, management risk, purchasing power risk. Capital allocation between risky & risk free assets-Utility analysis.

Financial markets- primary and secondary markets, major players and instruments in secondary market, functioning of stock exchanges, trading and settlement procedures at NSE & BSE, Role of SEBI as regulatory body for stock markets.

Valuation of securities- bond and fixed income instruments valuation: bond pricing theorems, duration of bond and immunisation of interest risk, term structure of interest rate, determination of yield curves.

Fundamental Analysis of equity stock: Concept of intrinsic value, Objectives of fundamental analysts, Economy-Industry-Company framework for fundamental analysis, Economic analysis and forecasting. Theory of Technical analysis: Fundamentals of technical analysis, basic assumptions, Dow Theory, charts, Technical trading rules, confidence index RSA, RSI, Moving average analysis. Efficient market theory: forms and tests.

Suggested Readings:

1. Investment Analysis and Portfolio management, Prasanna Chandra, TMH - 2nd Edition, 2005
2. Investments, Zvi Bodie & Mohanty, TMH -6th Edition, 2005
3. Investment Management, VK Bhalla (S.Chand & Co)
4. Security Analysis & Portfolio Management, S.Bhat, Excel Books.
5. Investment Analysis & Portfolio Management, Reilly 8th Edition, Cengage Learning.
6. Security Analysis & Portfolio Management, Fisher and Jordan,6th edition, Pearson education.
7. Investment science, David G.Luenberger, Oxford.

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HFM- 305: FOREIGN EXCHANGE MANAGEMENT

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objective: The objective of this course is to impart knowledge to students regarding the theory and practice of Foreign Exchange management.

Course Outlines:

Meaning of the term foreign exchange, foreign exchange market, nature, features, participants and structure, foreign exchange quotation.

International monetary systems: historical background and structure, exchange rate determination, theories, parity conditions, Flexible vs fixed exchange rates

Forward Exchange Market: nature, participants, forward contracts, premiums & discounts, forward vs future contracts. Currency futures market, introduction, features & structure. Currency option market: determinants of market value of currency option.

Foreign Exchange exposure: introduction, nature , magnitude, types of exposure: transaction, translation & economic; their measurement & management

Convertibility of rupee & liberalized exchange rate mechanism(LERA) system. An overview of Indian Foreign Exchange Control, RBI Guidelines, important provisions of FEMA

Suggested Readings:

1. “M.VY.Phansalkar”, All about Foreign Exchange & Foreign Trade, English edition, 2005.
2. “Walter.OCHYMSKI”, Foreign Exchange Management, Book sorge Publication, 2006.
3. “Julian Walmsley”, Foreign Exchange & Money Markets Guide, John wiley, 2006.
4. “Bimitris and N.Shyrafos”, New Technology of Financial Management, John wiley, 2006.
5. “Surendra.s.Yadav, P.K.Jain and Max peyrard”, Foreign Exchange Markets understanding derivatives & other instrucments, Macmillan.
6. “B.P.Mathur”, Foreign Money in India, Macmillan
7. “Yarbrough”, The World Economy, Trade & Finance, 7th edition, Cengage learning .
8. “Alan C Shapir”, Multinational Financial Management
9. “Yadav”, Foreign Exchange Markets, Macmillan, 2007.

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HFM-306: FINANCIAL ECONOMETRICS

Max. Marks- 100
Internal- 40
External- 60
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Nature, scope and methodology of Financial Econometrics. Simple Linear Regression Model: Assumptions, Procedures and properties of OLS estimator, Co-efficient of determination, Tests of significance, Maximum Likelihood Method; Multiple Linear Regression Analysis: Method of least squares, Properties of OLS estimator, Test of significance of regression co-efficients, R^2 and adjusted R^2. Issues with Classical Regression Model: Multicollinearity, Autocorrelation and Hetroscedasticity; Functional forms; Dummy variables-Nature and uses; Parameter stability tests.

Univariate Smoothing Methods: Moving average, Weighted moving average, Exponential smoothing, Seasonal indexes, Trend-seasonal and Holt-Winters smoothing.

Stationary Time Series Models: Stochastic process, Stationarity, Modelling AR, MA, ARMA processes, Deterministic and stochastic trends, unit roots, Testing unit roots – Dickey & Fuller, Phillips and Perron tests.

Suggested Readings

1. Greene, William H, Econometric Analysis, Macmillan Publishing Company, New York (1990).
2. Johnston, J., Econometric Methods, 3rd Edition McGraw Hill, Singapore, 1991.
3. Gujrati, Damodor N., Basic Econometrics, McGraw-Hill, Singapore, 1995.
4. Koutsoyiannnis, A, Theory of Econometrics, 2nd Edition, Harper & Row, New York, 1973.
5. Maddala, G.S., Introduction to Econometrics Macmillan, 2nd Ed. New York, 1992.
6. Theil, H., Principles of Econometrics, North Holland, 1972.
7. Pindyck, R. S. & Rubinfeld, D. S., Econometric Models and Econometric Forecasts; 3rd Ed. McGraw Hill, New York,
8. Peijie Wang, Financial Econometrics: Methods and Models; Routledge,2003.
9. Patterson K, An Introduction to Applied Econometrics, Palgrave 2003.
10. Enders Walter. Applied Econometrics Time Series, Wiley 2004.
11. Makridakis S & Wheelwright, Forecasting Methods & Application, Willey. 1990

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HFM-307: PROJECT PLANNING AND ANALYSIS

Max. Marks- 100
Internal- 40
External- 60
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objective: The basic purpose of this course is to understand the framework for evaluating capital expenditure proposals, their planning, finance, appraisal and management in the review of the projects undertaken.

Course Outlines:

Generation and Screening of Project Idea; Capital Expenditure: Importance, evaluation methods and Difficulties; Feasibility Reports: Market Demand and Situational Analysis; Technical Analysis; Financial Analysis; Environmental Analysis; Analysis of Project Risk; Firm Risk and Market Risk; Social Cost and Benefit Analysis; Multiple Projects and Constraints; Network Techniques for Project Management; Project Review and Administrative Aspects; Project Financing in India; Problem of Time and Cost Overrun in Public Sector Enterprises in India; Assessment of the Tax Burden; Environment Appraisal of Projects.

Suggested Readings

1. Ahuja, G K & Gupta Ravi. Systematic Approach to Income Tax, Allahabad, Bharat Law House, 1997.
2. Bhalla V K. Financial Management and Policy. 2nd ed. New Delhi, Anmol, 1998.
3. Chandra, Prasanna, Projects: Preparation, Appraisal, Budgeting and Implementation. 3rd ed., New Delhi, Tata McGraw Hill, 1987.
4. Dhankar, Raj S. Financial Management of Public Sector Undertakings. New Delhi, Westville, 1995.

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HFM-308: FIXED INCOME SECURITIES

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course outlines:

Fixed Income Securities Markets: Overview, Institutional Arrangements, Market Participants and Instruments, Investors Perspective: Risk and Rewards. Treasury Securities Auction: Government Bond Markets, Auction Mechanisms, Uniform vs Discriminatory Auction, Auction and Repo Markets, Markets Implications of Auction.

Bond Mathematics: Time Value of Money, Price and Yield Convections, Bond Valuation. Risk Identification in Bonds: Duration, Convexity, Immunization Strategies.

Yield Curve Analysis: Par Value, Zero, Spot Curve, Term Structure of Interest Rates, Constructing Yield Curve: Bootstrapping. Corporate Debt Markets: Structure, Rating, Spread, Issuers and Investors Perspective, Valuation, Convertibles, Financial Distress, Bankruptcy

Bond Portfolio Management Strategies, Fixed Income Derivative Markets: FRAs, Swaps, Future, Options. Global Fixed Income Securities Markets: Indexing, Securitization.

Suggested Readings:

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HFM-309: MANAGEMENT OF FINANCIAL MARKETS AND INSTITUTIONS

Max. Marks- 100
Internal- 40
External- 60
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objective: The objective of this course is to discuss the Indian financial market, management of financial institutions including a detailed study of the working of the leading financial institutions in India.

Course Outlines:

Introduction and overview of Indian financial system; Role of Financial System in economic development; Capital and money markets; Risk management in Indian Financial Institutions; Interest Rate Analysis; Interest Rates in the Financial System; Yield Curve; Risk and Inflation; Role of RBI in regulating financial institutions; Insurance Companies; Thrift Institutions; Capital Adequacy and Capital Planning; Problems of Time and Cost Over Runs; Financial Planning of Financial Institutions; Introduction to Depository Institutions; Role of Development Banking in Industrial Financing in India: Objectives and Functions of Different Financial Institutions in India. Mutual Funds; International Aspects of Financial Institutions.

Suggested Readings

1. Rose, Peter S. and Fraser, Donald R. Financial Institutions. Ontario, Irwin Dorsey, 1985.
2. Vij, Madhu. Management of Financial Institutions in India. New Delhi, Anmol, 1991.
3. Yeager, Fred C. and Seitz, Nail E. Financial Institution Management: Text and Cases. 3rd ed. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1989.
4. Bhole L.M., Management of Financial Institutions, Tata McGrawHill 2001.
5. Khan M.Y., Indian Financial System, Tata McGraw Hill, 2000.

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SM-310: CONSUMER BEHAVIOUR

Total Marks:100
External:60
Internal:40

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Consumer Behaviour- Meaning, Nature, Scope and Significance of its study. Consumer Research: Role of Consumer Research, The Consumer Research Process.

Consumer Decision Making Process- A detailed study of various stages and their marketing implications.

Psychological Factors Influencing Consumer Behaviour- A detailed study of the concepts, theories and principles of Perception, Learning, Motivation, Personality, self concept and Attitude and their marketing implications.

Group influences on consumer behaviour- A detailed study of the influences of Family and Reference Groups and their marketing implications.

Impact of Culture, Sub-Culture and Social Class on the consumer behaviour.

Communicating with consumers. A study of the concepts of Opinion Leadership and Diffusion of Innovation along with their marketing implications.

Suggested Readings:

1 Fred, D. Reynolds & Willaim D. Wells : Consumer Behaviour
2. Schiffman, Kanuk : Consumer Behaviour
3. Rogerm D. Blackwell, James David T. Kollat : Cases in Consumer Engel F. and Behaviour
4. Wilhelms and Henimeri Problems : Consumer Economics. Principles and
5. Flemming, Hanson : Consumer Choice
6. Stuart Henderson, Britt Action : Consumeer Behaviour in Theory and in
7. Ptrer, D. Beneet and Harold, H. Kassarijian : Consumer Behaviour
8. Rom, J Markin : The Psychology of Consumer Behaviour
9. Assael, H. Ohia, South Western, 1995 : Consumer Behaviour & Marketing Action,
10. Engle J.F. etc. Press, 1993 : Consumer behaviour, Chicago, Dryden
11. Howard, John A. etc. : Consumer Behaviour in Marketing Englewood Cliffs, New Jersey, Prentice HallInc.., 1989.

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HMM-311: PRODUCT AND BRAND MANAGEMENT

Total Marks:100
External:60
Internal:40

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Product Management: Product concepts and levels, Product mix and line decision, Managing line extensions, Product life cycle and marketing strategy implications, New Product Development Process. Understanding Brands: Strategic relevance of branding, brand hierarchy and brand name plans, Brand creation, Brand Personality, Brand image, Brand identity, Brand positioning, Brand equity and brand extensions, Brand portfolio, Managing brands and brand revitalization. Financial aspects of branding, Branding in different sectors: Customer, Industrial, retail and service brands.

Suggested Readings:

1. Keller, Kevin lane: Strategic Brand Management, Prentice Hall.
2. Kepferer, J.N.: Strategic Brand Management, New York, Free Press.
3. Mathur , U.C. : Product and Brand Management, Excel Books.
4. Verma, H.V.: Brand Management.

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HMM-312: INTERNATIONAL MARKETING

Total Marks:100
External:60
Internal:40

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

International Marketing: Definitions, nature, scope and benefits of international marketing, Domestic marketing versus international marketing. EPRG framework, Process of international marketing and emerging opportunities in international marketing, International Marketing Environment, WTO framework, International Marketing planning and selection, International Markets Segmentation, Basic modes for entry. International marketing mix: planning the product strategy, branding, packaging, product warranties and services; pricing strategies, methods of financing and means of payment, International advertising strategy, international distribution channels, selecting distribution channels.

Suggested Readings:

1. Sak Onkvisit and John Shaw : International Marketing (Analysis and strategy), PHI, N.Delhi.
2. Vern Terpestra and Ravi Sarathy: International Marketing, Thomson.
3. Philip R. Cateora, John L Graham and Prashant Salwan: International Marketing, Tata McGraw Hill.
4. Rakesh Mohan Joshi: International Marketing, Oxford.
5. P.K. Vasudeva: International Marketing, Excel Books.

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HMM-313: RETAILING MARKETING

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Objective: This course is aimed at providing students with a comprehensive understanding of the theoretical and applied aspects of retail management.

Retailing- Meaning, Scope and importance of retailing in the economy, functions and classification of retailers. The concept of Organized Retailing- issues and challenges in organized retailing. Retail Evolution & Growth in Indian Context. The wheel of retailing. Understanding the retail customer- the need for studying consumer behaviour, factors influencing the retail shopper, the consumer decision making process. Store location- types of retail locations, steps involved in choosing retail location, important factors for choosing a location. Store layout and Design: store layout- key considerations, importance of layout and steps for designing layout. Merchandise Assortment Planning- concept, planning tools for merchandise management, organizing the buying process, aims and methods of controlling merchandise. Pricing the merchandise- methods and factors affecting the pricing decisions. Retail promotional strategies. Role of Technology in Retailing. Customer Relationship management in Retailing.

Suggested Readings:

1 Roger Cox and Paul Brittain: Retailing- An Introduction, Pearson Education.
2 Barry Berman and Joel R. Evans: Retail Management- A Strategic Approach, Pearson Education.
3 Swapna Pradhan: Retailing Management- Text & Cases, The McGraw-Hill Companies.
4 Michael Levy, Barton A Weitz and Ajay Pandit: Retailing Management, The McGraw-Hill Companies.
5 Arif Sheikh and Kaneez Fatima: Retail Management, Himalaya Publishing House.
6 Chetan Bajaj, Rajnish Tuli and Nidhi Srivastava: Retail Management, Oxford University Press.

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HMM-314: RURAL MARKETING

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Objective: Course objective is to acquaint students with the complexities of Marketing in Rural Areas.

Course Outline:

Rural Marketing-Definition, Nature and Scope. Rural Markets-characteristics, importance and challenges & potential in rural markets. Rural Marketing Environment. Understanding rural consumers- buying behaviour models , factors affecting consumer behavoiour , buying process. Rural Market Research- meaning, sources for conducting rural marketing research, rural market research process, limitations and challenges in rural marketing research. Rural Markets and STP(segmenting ,targeting and positioning). Rural Marketing Mix: Product strategy- product concepts and classification, new product development, product life cycle, packaging and branding in rural India. Pricing strategy- objectives, factors affecting pricing, methods of pricing. Communication strategy- objectives, methods and challenges in rural communication. Rural Distribution strategy- distribution channels and organizing personal selling in rural markets. Role of IT in rural marketing(e-Choupals etc.).

Suggested Readings:

1 Balram Dogra and Karminder Ghuman: Rural Marketing-Concepts& Practices, Tata McGraw-Hill Publishing Company Ltd.
2 Awadhesh Kumar Singh and Satyaprakash Pandey: Rural Marketing-Indian Perspective, New Age International (P) limited Publishers.
3 Pradeep Kashyap and Siddhartha Raut: The Rural Marketing, Biztantra.
4 C.S.G Krishnamacharyulu and Lalitha Ramkrishnan: Rural Marketing- Text & Cases, Pearson Education Asia.
5 K.S.Habeeb-Ur-Rahman: Rural Marketing In India, Himalaya Publishing House.
6 Ramkishen. Y: New Perspectives In Rural and Agricultural Marketing, Jaico Publishing House.
7 T.P.Gopalaswamy: Rural Marketing, Vikas Publishing House Pvt. Ltd.

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HMM-315: MARKETING COMMUNICATION

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Introduction to marketing communication, the marketing communication mix: Advertising, Sales promotion, Direct Marketing, Personal selling, Publicity/ Public relations, Internet/Interactive marketing. The communication process- The nature of communication, A basic model of communication- Source, Encoding, Message, Channel, Receiver/Decoding, Noise, Response/Feedback.

Understanding the communication process: Communication response hierarchy, Cognitive processing of communication- Cognitive response approach, The Elaboration likelihood model. Creative Strategy Planning and Development: Finding the big idea, stimulating creativity, Creative techniques, Creative execution in advertising: Message, Appeals and execution styles, Celebrity endorsements in advertisement. Creative Execution in Print Advertising, Layout, Headlines, Copy, Visuals. Creative Execution on Television. Creative execution online: Internet and integrated marketing communication-Advertising and sales promotion on the internet, Personal selling on internet, Public relations on internet and Direct marketing on internet.

Suggested Reading

1. Kruti Shah and Alan D'Souza - Advertising & Promotion an IMC perspective
2. [Books of advertising Management] Tata Mcgraw Hill

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HHRM- 316 : INDUSTRIAL RELATIONS AND LABOUR POLICY

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objectives: Organizational Efficiency and performance are intricately interlinked with industrial relations. This course is an attempt to appreciate the conceptual and practical aspects of industrial relations.

Course Outlines:

Industrial Relations - Definition ,Scope , Functions ,Limitations. Changing facets. Industrial Relations in India : Role of Government , Management ,Labor.
Trade Unions - Definition, Objectives, Functions. History of Trade Unionism. Factors Affecting growth of Trade Unions. Limitations of Indian Trade Unions. Trade unions Act 1926.
Participative management : Definition ,Scope, nature , works committees : joint Management Councils, shop Councils .Collective bargaining, Industrial disputes - Introduction. Forms ,causes and Remedies, Industrial disputes Act , Grievance Management ,Industrial relations and the Government National Commission on labor – Recommendations. ILO: Objectives, structure and procedure for admission as member.

Suggested Readings:

1 P.C. Tripathi, Personnel Management & Industrial Relations, Sultan Chand & Sons, 2002
2 C.B. Mamoria, Satish Mamoria, S.V. Gankar, Dynamics of Industrial Relations, Himalaya Publishing House,2008
3 Jayashree Kulkarni, Hiremathi, Participative Management and Industrial Performance, Anmol Publications Pvt Ltd , 2007
4 B.D. Singh , Industrial Relations and Labour Laws, Excel Books, New Delhi, 2008
5 B.D. Singh , Industrial Relations, Excel Books, New Delhi, 2008
6 B.D.Singh, Labour laws for manager, Excel Books, New Delhi, 2007
7 L. Mishra, Case Laws on Industrial Relations, Excel Books, New Delhi, 2008.
8 Sen – 'Industrial Relations in India', Macmillan India Ltd., New Delhi, 2008.
9 P.Subba Rao- Industrial Relations , Himalaya Publishing House ,New Delhi.

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HHRM-317 LABOUR LEGISLATION AND INDUSTRIAL JURISPRUDENCE

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Introduction to law and the Indian legal system; Legal environment of business; Introduction to labour legislation; Labour Laws to regulate terms and conditions of work; Wage and social security; Trade and labour union laws. Globalisation and its impact on the world of Work; Employers' Rights, Workers' Rights and the State in the global economy as realised by the Domestic Labour Laws; Labour Law beyond borders; Labour Rights, Property Rights, and International Human Rights Trade Theory, Trade Policy and Development strategies as they relate to Worker interests; Labour standards in Indian Trade Law; Corporate Codes of Conduct; United Nations Organisation, and its functions in the context of the United Nations Charter.

General idea of jurisprudence, jurisprudence and industrial jurisprudence, supreme and subordinate labour enactments, industrial jurisprudence and the Indian Constitution; Vicarious liability; Rights and duties of both disciplinary proceedings - case study; Industrial justice and its various forms, jurisprudence and its limitations; Functions of judiciary and quasi-judiciary, interpretation of law; Principles of case laws; Procedural aspects; Civil procedure and criminal procedure.

Suggested Readings:

- P.C. Tripathi, Personnel Management & Industrial Relations , Sultan Chand & Sons,2002
- C.B. Mamoria, Satish Mamoria, S.V. Gankar, Dynamics of Industrial Relations,Himalaya Publishing House,2008
- Jayashree Kulkarni, Hiremathi ,Participative Management and Industrial Performance,Anmol Publications Pvt Ltd , 2007
- B.D. Singh , Industrial Relations and Labour Laws, Excel Books, New Delhi, 2008
- B.D. Singh , Industrial Relations, Excel Books, New Delhi, 2008
- B.D.Singh, Labour laws for manager, Excel Books, New Delhi, 2007
- L. Mishra, Case Laws on Industrial Relations, Excel Books, New Delhi, 2008.
- Sen – 'Industrial Relations in India', Macmillan India Ltd., New Delhi, 2008.
- Industrial Jurisprudence by A M Sarma, Himalaya Publication House, New Delhi.

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HHRM-318 MANAGEMENT OF TRAINING AND DEVELOPMENT

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Training Process - an Overview; Role, Responsibilities and Challenges to Training Manager; Organization and Management of Training Function; Training Needs Assessment and Action Research; Instructional Objectives and Lesson Planning; Learning Process and Cycle and Learning Curve; Training Climate and Pedagogy; Developing Training Modules; Training Methods and Techniques; Facilities Planning and Training Aids; Training Communication; Training Evaluation: CIRO Model, Donald Kirkpatrick Model etc. ; Designing and Managing Assessment – Centres – Prerequisites – Tools used – 360 degree feedback as an instrument in assessment center Training and Development in India.

Suggested Readings

- Beunet, Roger ed. Improving Training Effectiveness. Aldershot, 1988.
- Buckley R & Caple, Jim. The Theory & Practice of Training. London, Kogan& Page. 1995.
- Lynton, R Pareek, U. Training for Development. 2nd ed. New Delhi, Vistaar,1990.
- Pepper, Allan D. Managing the Training and Development Function. Aldershot,Gower, 1984.

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HHRM-319 GLOBAL HUMAN RESOURCE MANAGEMENT

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Core concepts in managing human resources in the global business environment; Understanding and managing the 'culture' factor in GHRM; Approaches to understanding of cultural diversity; managing cultural diversity; The Contingency Matrix approach to GHRM; Global staffing and staff flow practices; Global organisation design; Learning, training & development of global employees; Performance management in MNCs; Global compensation and benefits; MNCs and industrial relations trends; Emerging global HRM practices. Industrial Relations in a Comparative Perspective. Emerging Trends in Employee Relations and Employee Involvement .International Labour Standards. HR/IR issues in MNCs and Corporate Social Responsibility.

Suggested Readings:

- Adler,NJ. International Dimensions of Organizational Behaviour. Boston, Kent Publishing, 1991.
- Bartlett,Cand Ghoshal, S.Transnational Management:Text, Cases and Readings in Cross Border Management. Chicago, Irwin, 1995.
- Dowling. P J. etc. International Dimensions of Human Resource Management 2nd ed. California,Wadsworth, 1994.
- Hofstede,G. Cultures Consequence: International Differences inWork Related Values. London, Sage, 1984.
- Marcic, D and Puffer, S M. Management International: Cases, Exercise and Readings. St. Paul,West Publishing, 1994.
- Mead, R. International Management: Cross Cultural dimensions. BlackWell, Camb., Mass., 1994.
- Mendenhall, M. etc., Global Management. Cambridge Massachusetts.,Blackwell, 1995.
- The Global Challenge- framework for international human resource management, Evans, Pucik, Barsoux, Tata McGraw-Hill Irwin.
- International Human Resource Management-Peter J Dowling,Denice E Welch, Cengage Learning
- International Human Resorce Management, K Aswathappa, Sadhna Das, Mc Graw Hill Companies
- International Human Resource Management - Monir H Tayeb –Oxford University Press - 2005.
- International Human resource Management – PL Rao, Excel Books

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HHRM-320 COUNSELLING SKILLS FOR MANAGERS

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Introduction to Counselling: Definition & Need; Counselling, Psychotherapy and Instruction; Approaches to Counselling; Goals of Counselling; Counselling Process: Counselling Procedures, The Counselling Environment, Intake , Referral procedures: Guidelines for effective counseling; Advanced skills in Counselling; Action strategies; Counselling Skills: Verbal & Non- Verbal communication, Listening Barriers; Counsellor' Qualities; Core conditions of Counselling, Role Conflict in Counselling, Values of counseling, Counselling service, Manager counselor, Organisational Application of Counselling Skills: Change management, Downsizing, Mentoring, Team Management / Conflict Resolution, Crisis / Trauma; Problem Subordinates: Identifying problem subordinates, Types of problem subordinates, Dealing with problem subordinates, Ethics in Counselling , Ethical Principles, Common Ethical Violations.

Suggested Readings:

- Kavita singh, Counselling Skills for Managers, PHI, 2007.
- S. Naranyan Roa, Counselling and guidance, TMH, 2nd edition, 2007.
- Elizabeth B. Hurlock, Personality development, TMH,2007.
- Hughes, Ginnett, Currhy, Leadership , 5th edition, TMH, 2006.

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HHRM-321: MANAGEMENT OF INERPERSONAL GROUP PROCESSES

Max. Marks- 100
Internal- 40
External- 60

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objectives

The purpose of this course is to advance understanding regarding interpersonal and group processes and help the students to examine and develop process facilitation skills mainly through laboratory and other experience based methods of learning.

Course Contents

Group as a Medium of Learning; Group Development and Performance; Interpersonal Influence Processes: Group Cohesiveness; Group Conformity, Group Norms; Group Obedience; Group Think, Group Shift; Group Discipline; Social Loafing and Social Facilitation; Interpersonal Communication; Interpersonal Awareness and Feedback Process; Interpersonal Trust; Group Decision Making; Group Synergy; Team Building. Group Performance; Managerial Effectiveness: Traits and Skills; Theories and Perspectives on Effective Leadership, Power and Influence.

Suggested Readings

- Bennis, WG. Essay in Interpersonal Dynamics. U.S.A., Dorsey Press, 1979.
- Kolb, D. etc. Organizational Behaviour: An Experiential Approach. 5th ed. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1991.
- Kolb, D. etc. Organizational Behaviour: Practical Readings for Management 5th ed. Englewood Cliffs, New Jersey, Prentice Hall Inc., 1991.
- Mainiero, LA & Tromley CL. Developing Managerial Skills in OB. New Delhi, Prentice Hall of India, 1985.
- Moore, MD. etc. Inside Organizations: Understanding the Human Dimensions London, Sage, 1988.

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MBA (Hons.) Semester-IV

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
HONS-401	Entrepreneurship Development	40	60	100
HONS -402	Viva-Voce (Comprehensive)	-	100	100
HONS -403	Project Work	-	100	100

Compulsory Papers

Optional papers (Candidates would be required to select any Three papers from Major area of specialization and Two papers from any Minor area of specialization.)

List of Optional Papers of various specializations.

Finance

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
HFM-404	Portfolio Management	40	60	100
HFM-405	Financial Derivatives	40	60	100
HFM-406	International Financial Management	40	60	100
HFM-407	Management of Financial Services	40	60	100
HFM-408	Infrastructure and Real Estate Finance	40	60	100

Marketing

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
HMM- 409	Marketing of Services	40	60	100
HMM -410	Industrial Marketing	40	60	100
HMM -411	Supply Chain and Logistics Management	40	60	100
HMM -412	Strategic Marketing	40	60	100
HMM -413	Marketing for Non Profit Organization	40	60	100

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HRM

Course Code	Course Title	Division of Marks		
		Int.	Ext.	Total
HHRM-414	Human Resource Development and Strategies	40	60	100
HHRM -415	Competency Mapping and Talent Management	40	60	100
HHRM -416	Compensation Management	40	60	100
HHRM -417	Change Management and Organization Development	40	60	100
HHRM -418	Leadership and Managerial Effectiveness	40	60	100

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HONS-401: Entrepreneurship Development

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objective: To provide theoretical foundations of entrepreneurship development and to give an overview of who the entrepreneurs are and what competences are needed to become an Entrepreneur.

Course Outlines:

The Entrepreneurial Perspective: concept, Nature and Importance of Entrepreneurs; the Individual Entrepreneur; the Entrepreneurial and Intrapreneurial Mind; Entrepreneurship development and Economic development; Entrepreneurial Success & Failure: reasons& remedies.

Creating, Starting & Financing the venture: Creativity & the Business Idea; Legal issues for the Entrepreneur, drawing Functional Plans: Marketing Plan, the Organizational Plan, the financial Plan; Sources of capital for new business; Entrepreneurial Strategy.

Institutional Support & Project Management: Institutional Support for Entrepreneurs; project Planning & Appraisal; International Entrepreneurship opportunities; women Entrepreneurship.

Suggested Readings

Dynamics of Entrepreneurship Development; Vasant Desai
Entrepreneurship: New Venture Creation; David H. Holt
Entrepreneurship Development New Venture Creation; Satish Taneja, S.L.Gupta
Entrepreneurship: Strategies and Resources; Marc J. Dollinger
Culture of Entrepreneurship; Brigitte Berger.
Innovation and Entrepreneurship; Peter F. Drucker
Entrepreneurship; Robert D. Hisrich, Michael P. Peters, Dean A. Shepherd
Entrepreneurship as Strategy; G. Dale Meyer, Kurt A. Heppard
New Vistas of Entrepreneurship: Challenges & Opportunities; A. Sahay, M.S.Chhikara
Entrepreneurship and Small Business Management; Siropolis
The Entrepreneurial Connection - Gurmeet Naroola
Corporate Entrepreneurship ;Vijay Sathe

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HONS-402: Viva-Voce **Max. Marks: 100**

HONS-403: Project Work **Max. Marks: 100**

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HFM-404: PORTFOLIO MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objective: The objective of this course is to provide basic knowledge to students regarding the theory and practice of portfolio management.

Course Contents

Introduction to portfolio management: measurement of portfolio return and risk, process of portfolio management, Modern portfolio theory, Asset allocation decision, Markowitz diversification model.
Testing the efficient frontier: the relationship between the leveraged and unleveraged portfolios, constructing the efficient frontier, Sharpe Index model, determination of corner portfolio.
Capital market theory: Testing the Capital Asset Pricing Model, Arbitrage Pricing Theory.
Portfolio performance evaluation : Sharpe, Treynor & Jensen measure. Portfolio revision: Active and passive strategies & formula plans in portfolio revision.
Managed Portfolios and Performance measurements: Classification of managed portfolios, Mutual funds- types, performance evaluation of mutual funds, functions of Asset Management Companies.

Suggested Readings:

1. Investment Analysis and Portfolio management, Prasanna Chandra, TMH - 2nd Edition, 2005
2. Investments, Zvi Bodie & Mohanty, TMH -6th Edition, 2005
3. Investment Management, VK Bhalla (S.Chand & Co)
4. Security Analysis & Portfolio Management, S.Bhat, Excel Books.
5. Investment Analysis & Portfolio Management, Reilly 8th Edition, Cengage Learning.
6. Security Analysis & Portfolio Management, Fisher and Jordan,6th edition, Pearson education.
7. Securities Analysis & Portfolio Mgmt, V.A. Avadhani, Himalaya Publishing House.

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HFM-405: FINANCIAL DERIVATIVES

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Objective: The objective of this course is to impart knowledge to students regarding the theory and practice of financial derivatives.

Course Outline

Introduction: Meaning and purpose of derivatives; Forward contracts, future contracts, options, swaps and other derivatives; type of traders; Trading future contracts; Specification of the futures contracts; Operation of margins; Settlement and regulations.

Sources of Financial Risk: Credit vs Market, default risk, foreign exchange risk, interest rate risk, purchasing power risk etc.; Systematic and non-systematic risk Reasons for trading: risk management, speculation and arbitrage. Stock index fuures.

Options: Types of options; Option trading; Margins; Valuation of options; Binomial Option Pricing Model; Black-Scholes Model for Call Options; Valuation of put options; Index options; Option markets-exchange traded options, over-the-counter options, quotes, trading, margins, clearing, regulation and taxation;.

Futures: Hedgers and speculators; Futures contracts; s markets - clearing house, margins, trading, future positions and taxation; Future prices and spot prices; Forward prices vs future prices; Futures vs options.

Derivatives Market in India: Present position in India - regulation, working and trading activity. Swap Markets: types; hedging with Swaps

REFERENCES:

1. Gupta S.L. , Financial Derivatives.PHI, New Delhi.
2. Chance, Don M: An Introduction to Derivatives, Dryden Press, International Edition.
3. Chew, Lilian: Managing Derivative Risk, John Wiley, New Jersey.
4. Das, Satyajit: Swap & Derivative financing, Probus.
5. Hull, J.: Options: Futures and other Derivatives, Prentice Hall, New Delhi.
6. Kolb, Robert W: Understanding Futures Markets, Prentice Hall Inc., New Delhi.

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HFM-406: INTERNATIONAL FINANCIAL MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment

Course Outlines:

International Financial Management: An overview; international monetary systems and financial institutions: their role, constitutions and functioning.

The foreign exchange markets, foreign currency futures and options. Theories and principle of exchange rate determination.

Managing foreign exchange exposure: economic, transaction and translation exposure.

Country risk analysis and foreign direct investment. Cost of capital, capital structure and capital budgeting. decision of multinational firm.

Suggested Readings:

1. Multinational Financial Management: Shapiro
2. International Financial Management : Adrian and Buckly

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HFM-407: MANAGEMENT OF FINANCIAL SERVICES

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Contents:

Financial Services: Meaning, Nature and Types; Leasing: Concept. Classification, Accounting, Legal and Tax Aspects of Leasing: Financial Evaluation of Leasing.

Factoring: Meaning, Characteristics and Types of Factoring arrangements, Factoring in India, Factoring vs. Forfeiting.

Hire Purchase Finance and Consumer Credit: Conceptual Frame Work; Legal Aspects; Taxation; Accounting and Reporting

Credit Rating: Meaning and Types; Benefits of Credit rating to investors and companies. Credit Rating Agencies; Objectives and Functions.

Credit Cards: Concept and Significance; Types of credit Cards, Credit Card business in India.
Book Building: Concept and Mechanism of Book Building; Significance and Benefits of Book Building.

Bought Out Deals: Meaning and Nature; Mechanisms of Bought out Deals; Advantages; The Present Scenario.

Securitization: Concept, Mode, Mechanism and Beneficiaries of Securitization; Securitization in India.

Depository: Concept, Depository participants; Functions of depository system; Benefits of depository. Venture Capital: Meaning, Modes of Financing, Role and Functions of Merchant Bankers.

Suggested Readings

1. Khan, M. Y., Management of Financial Services, McGraw Hill, 2001.
2. Gordan, E and K. Natrajan, Emerging Scenario of Financial Services. Himalaya Publishing House, 1997.
3. Meidan, Arthur Brennet, M. Option Pricing: Theory & Applications. Toronto, Lexington Books, 1983. .
4. Kim, Suk and Kim, Seung, Global Corporate Finance. Text and Cases. 2nd ed.,

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HFM-408: INFRASTRUCTURE AND REAL ESTATE FINANCE

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course outlines:

Distinctive features of infrastructure financing especially for energy, roads, posts, airports and urban infrastructure including tourism water and sanitations. Sources of infrastructure financing such as private placements, IPOs, BOT, PPP, private equity and loan syndication.

Understanding and financing residential properties, Mortgages: obtaining a mortgage and determination of borrowing capacity. Financing of corporate real estate, constructing projects and the land development projects: partnership, joint ventures and syndication.

Risk and Real Estate Industry: Risk analysis, Asymmetric information, transaction coast, due diligence, the winner's curse. Introduction to real estate capital markets and REITS as real estate finance vehicle. Debt securitization: CMSS markets or structures. CMBS risks and pricing.

Suggested Readings:

1. Real Estate Finance and Instruments : Brueggeman and Fisher Irwin 2003.
2. Coporate Real Estate Management : Krumm or Linneman

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HMM-409: MARKETING OF SERVICES

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outline

Growth of Service Sector in a developing country like India- Trends and Reasons. Services- Meaning, Nature and Characteristics. Goods- Service Categorization. Problems Associated with Marketing of Services on account of unique characteristics of Services. Overcoming problems associated with services marketing.

Service Marketing Environment. Service Marketing Mix- A brief introduction to the concepts of product, price, place, promotion, people, physical evidence, process and productivity.

Service Management Triangle- a study of the concepts of internal marketing, external marketing and interactive marketing.

Service Quality- concept and prominent models. Service Recovery- concept and principles. Relationship Marketing in services. Service differentiation and positioning. Controlling the service marketing efforts.

Application of services marketing- Banking Services, Insurance Services, Tourism Services and Health Services.

Suggested Readings

1. Zeithmal, Services Marketing, TMH
2. Cristopher Lovelock, Services Marketing, Pearson Education
3. Harsh Vardhan Verma, Services Marketing

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HMM-410: INDUSTRIAL MARKETING

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Objectives

The objective of this course is to lay a foundation for an understanding of the complex dimension of the Industrial Marketing

Course contents

Nature and scope of International Marketing: Differences between Industrial Marketing and consumer marketing; understanding Industrial Markets; Organizational Customers; Classifying Industrial products; nature of demand in Industrial Markets; Industrial Buyer Behavior; Industrial Purchasing System: Industrial Marketing Research: Industrial Marketing Strategy: Strategic planning. Assessing Marketing Opportunities, segmentation of Industrial Markets, Product Positioning: Product Decision and Strategies; Industrial Services; Industrial Pricing: Price Determinants, Pricing Policies, Pricing Decisions, Formulating Channel Strategy; Logistics Management; Industrial Marketing Communication: Sales force Management, Advertising and sales promotion. Value and vendor analysis.

Suggested readings

1. Reader Robert R. Industrial Marketing Analysis, Planning and control Englewood Cliffs, New Jersey, Prentice Hal Inc. 1991.
2. Vitale; Business to Business Marketing; Thomson Learning, Mumbai.
3. Havalder Krishna K, Industrial Marketing, TMH, New Delhi.
4. Corey E Raymond, Industrial Marketing: Cases and concepts, 3rd ed. Englewood cliffs, New Jersey Prentice Hall Inc. 1983.
5. Gross AC Business Marketing Boston, Houghton Mifflin, 1993.
6. Hill, Richard etc. Industrial Marketing. Homewood Illinois, Richard D. Irwin, 1975.
7. Webster, FE. Industrial Marketing Strategy, 2nd ed. New York John Wiley, 1979.
8. Alexender S. Ralph cross – Industrial Marketing.
9. Reeder Robert R., “Industrial Marketing” PHI.

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HMM-411: SUPPLY CHAIN AND LOGISTICS MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outline

Distribution Channels- Role, Functions, Flows and Levels. Channel Design- Meaning and detailed process. Distribution Network Planning. Channel Management Decisions. Channel Integration and Systems.

Logistics- Concept and Significance. Integrated Logistics Management. Market Logistics Planning. Market Logistics Decisions- Order Processing, Warehousing, Inventory and Transportation.

Transportation Alternatives- Pros and Cons. Economics of Transportation. Transportation Models.

Stocking Policies. Introduction to Central Warehouse Acts.

Packaging- Principles, Functions and Types. An introduction to Containerisation.

Role of Freight and Insurance in Logistics.

Concept of Supply Chain and its Strategic Role in the Organisation.

Role of IT in Logistics and Supply Chain.

Suggested Readings.

- Purchasing and Supply Management- Dobler and Burt
- Strategic Logistics Management- Lambert.
- Logistical Management- Bowersox.
- Logistics and Supply Chain Management- Christopher
- Marketing Management- Kotler.

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HMM-412: STRATEGIC MARKETING

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outline

Strategic Marketing Management- Meaning, Nature and Scope. Difference between strategic marketing and marketing management. Tasks and principles of strategic marketing. Business Strategy- Meaning and Components.

External Analysis- Customer Analysis, Competitor Analysis, Market Analysis and overall environmental analysis.

Internal Analysis- A detailed study of various financial and non-financial techniques. Choice of a strategic option using prominent portfolio analysis techniques such as BCG, GE, Shell Matrix etc.

An analysis of prominent strategies: Differentiation Strategy, Low Cost Strategies, Focus Strategies, Preemptive Move, Growth and Diversification Strategies and Global Strategies. Obtaining Sustainable Competitive Advantage.

Implementation and Control of Marketing Strategies- Various Issues and Techniques.

Suggested Readings

1. Aaker, D, Strategic Market Management, Wiley Publications.
2. Cravens and Piercy, Strategic Marketing, New Age Publications
3. Graeme Drummond, John Ensor, Strategic Marketing-Planning and Implementation, Butterworth-Heinemann.

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HMM-413: MARKETING FOR NON PROFIT ORGANISATION

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outline

Non-profit organization, starting and improving non-profit organizations; Non-profit institutions in Indian market Context e.g. Public services, hospitals. Setting Marketing Objectives, Analyzing Socio-Cultural Environment affecting Non-profit Organizations, Analyzing beneficiary Behaviour. Strategic planning for non-profit Organizations; targeting; segmenting and positioning nonprofits, Market Segmentation and related issues, elements of marketing mix, product and service decisions, pricing decisions, distribution and delivery strategy. Products and services for non-profit organizations; Communication strategies for non-profit organizations; Advertising and personal persuasion ; Ethics of non-profit organizations. Role of institutional image, promotional and public related strategy, monitoring and review of marketing programmes.

Suggested Readings:

1. Marketing Non-profit Organization : S.M. Jha, Himalya Publishing House.
2. Non-profit Organization : Kotler

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HHRM-414 HUMAN RESOURCE DEVELOPMENT STRATEGIES AND SYSTEMS

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

HRD Introduction: Introduction of HRD Methods, Changing paradigm of HRD -concepts-scope-Objectives, principles, framework, subsystems. Contribution of its subsystems to HRD goals. Planning and organising HRD system-principles in designing HRD system – Linkage between HRD and organisational growth – Simultaneous Vs Sequential introduction of HRDS – HRD models-HRD in Indian industries- Challenges of Future HRD Professionals – Roles and competency requirements of HRD Professionals. Framework of HR-The strategic HR Framework Approach, The integrative framework, Human Capital Appraisal Approach, HRD Score card approach , P-CMM Approach. HRD for Workers; HRD Intervention; HRD Approaches for coping with Organisational Changes. Future of HRD in India. Case Study of HRD Implementation in Indian Organisations.

Suggested Readings

1. Dayal, Ishwar. Successful Applications of HRD. New Delhi, New Concepts,1996.
2. Dayal, Ishwar. DesigningHRDSystems. New Delhi, Concept. 1993.
3. Kohli, Uddesh & Sinha, Dharni P. HRD - Global Challenges & Strategies in 2000 A. D. New Delhi, ISTD, 1995.
4. Maheshwari, B L.&Sinha, Dharni P. Management of Change Through HRD.New Delhi, Tata McGraw Hill, 1991.
5. Pareek, U. etc. Managing Transitions : The HRD Response. New Delhi, Tata McGraw Hill, 1992.
6. Udai Halder, Human Resource Development,Oxford Publications.
7. Rao. T.V. Future of HRD. McMillan India Ltd. (2003).

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HHRM-415 COMPETENCY MAPPING & TALENT MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Introduction: History & Origin of Competency, KSA v/s Competency, Reasons for Popularity of Competency, Views Against Competency, Definitions, Components of competency, Skill, Knowledge & Motive, Trait & Self-Concept, Iceberg Model of Competency, Competency Categories: Threshold Competencies, Differentiating Competencies, Generic or Key Competencies, Functional or Technical Competencies, Leadership or Managerial Competencies; Competency Mapping: Definition, Important Aspects, Process of Competency Mapping; Steps in Developing Competency Model; Competency models: Leadership and managerial competency models,5 level Competency Based Model, HR Generic & Specific Competency Model, Technical and Behavioural Competency Model, Supervisory Generic Competency Model, Job Based Competency Model ; Competencies Assessment and uses : Strategies to address the gaps, Applications of Competency Mapping: Competency based Recruitment and Selection, Competency Based Performance Appraisal, Competency Based Succession & Career Planning, Competency Based Compensation and Benefits, Competency based Training & Development.

Key Concepts of Talent Management - Capability, talent, potential, competency, performance, performance attributes, Foundation of Talent: Will to Create, Will to plan, will to do and will to lead, Four Components of Talent Management: Procurement, Performance Differentiation, Performance & Potential Categorisation - Defining , Sustaining, Nurturing & Developing talents, Managing gender and diversity in Talent Management, International practices in Talent Management.

References

1. Competency Mapping by Seema Sanghi , Sage Publications
2. Competency Mapping by R K Sahu, Excel Publications.
3. Competence at Work, by Spencer and Spencer, American Society of Training and Development.
4. Organizational Behaviour - Human Behavior at work – by John.W.Newstrom and Keith Davis Tata McGraw Hill, l1/e, 2003.
5. Human Relations in organizations. Robert N. Lussier, 6th edition, Mc-Graw Hill Education.
6. Development Management Skills, Whetten & Cameron, 7th Ed. Pearson, PHI.
7. Understanding OB – Udai Parek, Oxford University Press.
8. Theories of Personality – Calvin S Hall Et Al, Wiley Publication
9. Seven Habits of Highly Effective People, Stephen R Covey, Simon & Schuster
10. Training in Interpersonal Skills – tips for managing People at work, Stephen Robbins,Et al, Pearson, PHI.

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HHRM-416 COMPENSATION MANAGEMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Contents:

Compensation Defined, Goals of Compensation System, Compensation Strategy Monetary & Non-Monetary Rewards, Understanding the theory related to reward management, Understanding of wage differentials, internal alignment: defining internal alignment, job analysis, job evaluation, person based structure: skill based structure, competency based structure. Determining External competitiveness: Defining competitiveness, Labour market factors, product market factors, organisation factors, Pay for performance plans: short term incentive plans, team incentive plan, long term incentive plans. Benefits options: legally required benefits, retirement and saving plans payment, life insurance, medical and medically related payment and miscellaneous benefits. Understanding and compensation packages; compensation of chief executives, senior managers, R & D Staff, etc. Statutory provisions governing different components of reward systems; Working of different institutions related to reward system like wage boards, pay commissions,

Suggested Readings

1. Armstrong, Michel and Murlis, Helen. Reward Management: A Handbook of Salary Administration. London, Kegan Paul, 1988.
2. Henderson, Richard I. (2004). Compensation Management: Rewarding Performance. Prentice Hall of India Pvt. Ltd
3. Milkovich & Newman (2005). Compensation: Tata McGraw Hill, New Delhi, Eighth Edition.
4. Henderson I.Richard, Compensation management in a knowledge based world, Pearson Education, New Delhi, 9th edition.

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HHRM-417 CHANGE MANAGEMENT AND ORGANIZATION DEVELOPMENT

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Contents

Introduction Nature and meaning of organizational Change, forces for organizational change, types of change, models of OC, Lewins Model, System Model of change, Registance to change, Building support for change.

Organizational Development: Meaning, Characteristics of O.D. steps in Organization Development Process, values, Assumptions and beliefs in O.D. Ethics of O.D. Professionals. Future of Organization Development. Intervention Strategies: O.D. Interventions; An overview; Definition, Nature, major families of O.D. interventions, T-Groups (sensitivity Training Group), Life and career Planning; Transactional Analysis, Behaviour Modeling.

Team interventions: Process Consultation, Team Building family Group; Techniques used in team-building: Role analysis technique, Role negotiation techniques, Intergroup team building interventions, third Party peace making interventions.

Survey feedback, system 1-4T, self-managed teams; MBO and appraisal, quality circle; quality of work projects, works redesign Grid O.D. phases, 4.5.6.

Suggested Readings

1. Abad, Ahmad. etc. Developing Effective Organization. New Delhi, Sri Ram Center for Industrial Relations, 1980.
2. De Nitish. Alternative Designs of Human Organizations. London, Sage, 1988.
3. French, W H. and Bell, Ch. Organization Development. New Delhi, Prentice Hall of India, 1991.
4. French,WL. etc. Organization Development Theory, Practice and Research. 3rd ed. New Delhi, Unive Book Stall, 1990.
5. Harvey, D F. and Brown, D R. An Experiential Approach to Organization Development. Englewood Cliffs, Jersey, Prentice Hall Inc., 1990
6: Wendell L.French, Cecil H.Bell,Jr., Organization Development: behavioral science interventions for organization improvement, PHI publication ,1990.

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HHRM-418 LEADERSHIP AND MANAGERIAL EFFECTIVESS

Max. Marks: 100
External: 60
Internal: 40
Time: 3 Hours

Note: There will be two parts in the question paper. Part A will comprise 8 questions of 5 marks each. Part B will comprise 5 questions of 10 marks each. The candidate would be required to attempt 6 questions from Part A and 3 Questions from Part B. At least 3 case studies would be discussed in the class for the purpose of Internal Assessment.

Course Outlines:

Nature and significance of leadership; Determinants of effective leadership; Trait theory of leadership. Behavioral styles in leadership role; Likert's management system; Managerial grid; Followers as determinants of effective leadership, life cycle theory. Situation as determinants of leadership, Fielder's contingency theory; Vroom and Yetten model, Path-goal theory; Attribution theory; Charisma and transformational leadership.

Managerial effectiveness: Introduction of managerial effectiveness, responsibilities of effective manger, management style and situations, Management by objectives: meaning, Elements of successful MBO, training the team in MBO, Corporate MBO and its implications, Effective organization development, Future of managerial effectiveness.

Suggesting Readings:

1. Hughes, Richard L.; Ginnett, Robert C. and Curphy, Gordon J., Leadership: Enhancing the Lessons of Experience, Singapore: McGraw Hill.
2. Yukl G.A, Leadership in an Organization, New Jersy: Prentice Hall.
3. Pareek, Udai and Rao, Behavioral Process in an Organization, New Delhi: Oxford IBH.DuBrin, Andrew J., Leadership: Research Findings, Process, and Skills, New Delhi, Bizatantra
4. Reddin, Effective Management, Tata McGraw Hill,New Delhi.

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MODIFIED/REVISED B.ED SYLLABUS OF CERTAIN TEACHING PAPERS & PART-II PRACTICALS (2010-2011) APPROVED BY THE VICE CHANCELLOR

Under scheme of examination and syllabus for B. Ed. one year regular course implemented from the Session 2010-11 in Part- I Theory Papers I- VII there is no change. Further, in Part-II Practicals, except Paper VIII-B, there is no change. In paper VIII-B, the required changes have been incorporated as under

Existing Syllabus					**Amended Syllabus**				
VIII-B	**Community Based Projects and Work Experience (Any one of the following)**	40	10	2+2 (1.30 HRS:40)	VIII-B	**Community Based Projects and Work Experience (Any Two of the following)**			
	1) Out of School Children' Enrolment Drive (At least 5 children enrolment to Support teaching)					1) Out of School Children' Enrolment Drive (At least 5 children enrolment to Support teaching)	20	5	2 (0.45HRS/ 20)
	2) Recycling of the Waste Paper (Any five items)					2) Recycling of the Waste Paper (Any five items)	20	5	2 (0.45HRS/ 20)
	3) School/Classroom ambience: Interior-decoration(Old syllabus 2008-09)					3) School/Classroom ambience: Interior-decoration(Old syllabus 2008-09)	20	5	2 (0.45HRS/ 20)
	4) Polio Drive and First Aid (Preparing awareness material e.g. Posters/Hand Bills etc) (Any five items)					4) Polio Drive and First Aid (Preparing awareness material e.g. Posters/Hand Bills etc) (Any five items)	20	5	2 (0.45HRS/ 20)
	5) Drawing and Painting (Old syllabus 2008-09)					5) Drawing and Painting (Old syllabus 2008-09)	20	5	2 (0.45HRS/ 20)
	6) Alternate School Monitoring- Support teaching					6) Alternate School Monitoring- Support teaching	20	5	2 (0.45HRS/ 20)
	7) Out Reach programme (Marginalized children i.e Special needs/Economically/SC/ST/ Girls)					7) Out Reach programme (Marginalized children i.e Special needs/Economically/ SC/ST/ Girls)	20	5	2 (0.45HRS/ 20)
	8) Mid Day Meal-Preparation to Monitoring					8) Mid Day Meal-Preparation to Monitoring	20	5	2 (0.45HRS/ 20)
	9) Organising Parent-Teacher Meeting					9) Organising Parent-Teacher Meeting	20	5	2 (0.45HRS/ 20)
						10) Serva Shiksha Abhiyaan (SSA)	20	5	2 (0.45HRS/

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	10) Serva Shiksha Abhiyaan (SSA) Project			

	Project			20)

There was also not given any Evaluation Scheme including moderation in Internal Assessment Awards in the existing B.Ed Syllabus (2010-2011). The same has been incorporated as under:

EVALUATION SCHEME

1. Part-A(Theory Papers-I to VII)

(A) Theory Part: External Evaluation

The theory part in papers I, II, III(A), III(B), IVA, IVB, VA, VB ,VI & VII will be evaluated through a system of external evaluation. The University will appoint external paper setters and examiners as per past practice.

(a) Papers-I, II, VI & VII (Max. Marks-80):

Students will be required to attempt 5 questions in all out of the given 9 questions.

Q. No. 1 will be compulsory and will carry 16 marks. It will have 4 parts comprising 4 marks each.

Two long answer type questions will be set from each of the four units, out of which the students will be required to attempt one question from each unit. Long-answer type questions will carry 16 marks each.

(b) Papers III(A), III(B), IVA, IVB, VA, VB (Max. Marks- 40+40): Students will be required to attempt 3 questions in all out of the given 5 questions in each of these papers. Question No. 1 will be compulsory in all these papers and will carry 8 marks. It will have 2 parts comprising 4 marks each. Two long answer type questions will be set from each of the two units, out of which the students will be required to attempt one question from each unit. Long answer type questions will carry 16 marks each.

Papers III(A), III(B), IVA, IVB, VA & VB will be attempted on separate Answer Books in one sitting of 3 hours. All these papers and answer books will be administered simultaneously at the beginning of the examination.

(B) Practicals and Sessionals (Pedagogical Skill Development/Project Work): Internal Evaluation

The Practical work and Sessionals (Pedagogical Skill Development/Project Work) in papers I, II, III(A), III(B), IVA, IVB, VA, VB, VI & VII will be evaluated by a committee of examiners constituted for this purpose. This committee will be internal one and include the Principal of College of Education concerned and all the teachers teaching the subject in the College during the concerned academic session.

The weightage for internal evaluation will be house test (25% weightage), project work (50% weightage) and Viva-voce (25% weightage) for each of these paper.

2. Part-B (Practical Papers VIII to X)

(A) External evaluation in paper VIII will be done by External Examiner/Examiners appointed by the University on the recommendation of the concerned Board of Studies as per ongoing practice. The evaluation will be done in groups of 20-25 students at a time.

Internal evaluation (sessionals) in these papers will be done by an internal committee of the college. It will include the Principal and the teachers taking the practical classes in the concerned academic session.

(B) The Evaluation in paper IX and X i.e. Practical Skill in Teaching (Teaching subject-I and Teaching subject-II) will be done as follow:

(a) In these papers the sessional work i.e., criticism lessons, micro-teaching, simulated teaching, preparation of lesson plans, block-teaching practice, observation and maintenance of the concerned record in the note book etc, will be evaluated by an internal committee of the college of education concerned. The Principal and three senior teachers of the college will constitute such a committee.

(b) The two final lessons delivered by the students will be evaluated by an external team consisting of one Coordinator (Head Examiner) and three members (Sub Examiners) appointed for this purpose by the University on the recommendation of the Board of Studies in Education as per previous practice. The examiners will evaluate 40-50 lessons in a day. If the number of students is large, then two separate panel of examiners may be formed by Board of Studies to evaluate final lessons in teaching subject-I and teaching subject-II separately.

(c) Evaluation in paper XI (Participation in School based Co-curricular Activities) will be done by an internal committee of the college. This committee shall comprise of the Principal and concerned teachers organising these activities

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in the college. Only grades will be awarded and recorded separately in the Detailed Marks Card. However, these grades shall not be counted towards determination of Division etc.

Grades shall as follow:

1. Grade O (Outstanding), Grade A (Very Good), Grade B (Good), Grade C (Average), Grade D (Below Average)
2. A student will have to pass in theory paper (external), practical (external) and aggregate of each paper separately to pass a paper.

Internal Assessment/Sessional Awards

Where 75% marks or more are awarded in sessionals only in Paper(s) of the course, the colleges should submit justification for the same at the time of awarding the sessionals marks and their record be preserved by the colleges upto 6 months from the date of declaration of result.

There were discrepancies/gaps in the contents/units of certain teaching subjects (papers VI & VII) of existing B.Ed syllabus(2010-11). Therefore, in papers VI & VII (Teaching Subjects) re-arrangement/required modification of contents/Units of syllabi has done. The same is given as under:

Existing Syllabus	Amended Syllabus
PAPER-VI, VII Group-A (Opt. v): **TEACHING OF PHYSICAL SCIENCE** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS UNIT-I 1) Concept • Importance of Physical Science in school curriculum. • General aims and objectives of teaching Physical sciences at secondary school stage. • Bloom's Taxonomy of educational objectives • Formulation of specific objectives in behavioural terms. 2) Contents • Energy-types • Transmission of heat • Atomic structure • Magnetism • Friction • Water as universal solvent **UNIT-II** 3) Following points should be followed for pedagogical analysis • Identification of minor and major concepts • Listing behavioural outcomes • Listing activities and experiments • Listing evaluation procedure 4) Transaction of contents	**PAPER-VI, VII Group-A (Opt. v):** **TEACHING OF PHYSICAL SCIENCE** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS **UNIT-I** **1. Concept** • Importance of Physical Science in school curriculum. • General aims and objectives of teaching Physical sciences at secondary school stage. • Bloom's Taxonomy of educational objectives • Formulation of specific objectives in behavioural terms. **2. Content and Pedagogical Analysis** • **Energy-types** • **Transmission of heat** • **Atomic structure** • **Magnetism** • **Friction** • **Water as universal solvent** **Following points should be followed for pedagogical analysis:** • **Identification of concepts** • **Listing behavioural outcomes** • **Listing activities and experiments** • **Listing evaluation techiques** **UNIT-II** 3. **Transaction of contents** • Unit planning • Lesson Planning • Preparation of teaching aids. • Development of aquarium, Vivarium etc. • Development of demonstration experiments 4. **Development of self-learning material (Linear Programme)**

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• Unit planning of teaching aids. • Preparation of teaching aids. • Development of demonstration experiments • Co-curricular activities **UNIT-III** 5) Development of self-learning material (Linear programme) 6) Method of teaching • Lecture-Demonstration method • Project Method • Problem- solving method • Problem- solving method **UNIT-IV** 7) Skills • Practical demonstration – using laboratory • Improvisation of apparatus • Skill of introducing the lesson (set induction) • Questioning • Skill of Illustration with examples (visual) • Skill of explaining • Skill of sing Black board • Skill of stimulation variation 8) Evaluation • Concept-Measurement and evaluation and grading • Formative evaluation • Summative evaluation • Diagnostic evaluation • Characteristics of a good test • Preparation of achievement test-objective tests	**UNIT-III** **5. Method of Teaching** • Lecture-Demonstration method • Project Method • Problem- solving method **6. Skills** • Practical demonstration- using laboratory • Improvisation of apparatus **UNIT-IV** **7. Micro- teaching skills** • Skill of introducing the lesson (set induction) • Questioning • Skill of Illustration • Skill of explaining • Skill of stimulation variation **8. Evaluation** • Concept-Measurement and evaluation and grading • Formative evaluation • Summative evaluation • Diagnostic evaluation • Characteristics of a good test • Preparation of achievement test-objective tests
Paper-VI & VII (Group B) Opt. (i): **TEACHING OF SOCIAL SCIENCE** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS **UNIT-1** 1) Concept, objectives and values: • Meaning, Scope, Importance and values of Teaching Social Science. • Aims and objectives of Teaching of Social Science with special reference to present Indian School. • Bloom's Taxonomy of objectives • Writing objectives in behavioural terms with particular reference to teaching of history/geography/civics.	**Paper-VI & VII (Group B) Opt. (i):** **TEACHING OF SOCIAL SCIENCE** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS **UNIT-1** **1.** Concept, objectives and values: • Meaning, Scope, Importance and values of Teaching Social Science. • Aims and objectives of Teaching of Social Science with special reference to present Indian School. • Bloom's Taxonomy of objectives • Writing objectives in behavioural terms with particular reference to teaching of history/geography/civics.

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2) Content & their Pedagogical analysis: • History of Freedom Movement. • Globe: General Information about Globe. • Indian Constitution. • Major issues facing Indian economy, today.	2 **Content & Pedagogical analysis:** • **History of Freedom Movement.** • **Globe: General Information about Globe.** • **Indian Constitution.** • **Major issues facing Indian economy, today.** **Following points should be followed for pedagogical analysis:** • **Identification of concepts** • **Listing behavioural outcomes** • **Listing activities and experiments** • **Listing evaluation techniques**
UNIT-II 3) A) Methods and Skills of Teaching Social Science (History/Geography/Civics): • Project Method • Inductive and Deductive Method. • Assignment Method • Source Method • Story Telling Method • Lecture Cum Discussion Method B) Skills • Skill of Introducing the lesson • Skill of explaining • Skill of Questioning • Skill of Illustration with Example • Skill of Stimulus Variation 4) Development utilization of Instructional Material • Development of Self-Instructional Material. • Use of Community Resources. • Designing of Social Science Lab.	**UNIT-II** **3.** Methods of Teaching Social Science (History/Geography/Civics): • Project Method • Inductive and Deductive Method. • Assignment Method • Source Method • Story Telling Method • Lecture Cum Discussion Method 4. Skills • Skill of Introducing the lesson • Skill of explaining • Skill of Questioning • Skill of Illustration with Example • Skill of Stimulus Variation
UNIT-III 5) Development/Utilization of instructional aids- • Charts • Maps • Graphs • Models • Film strips • T. V. • Computers 6) Development and utilization of instructional aids	**UNIT-III** **5. Development & Utilization of Instructional Material** • **Development of Self-Instructional Material.** • **Use of Community Resources.** • **Designing of Social Science Lab.** 6. Development/Utilization of instructional aids- • Charts • Maps • Graphs • Models • Film strips • T. V. • Computers
UNIT-IV 7) Text Book: Importance and qualities of a good text book of Social Science i.e. History/Geography and Civics 8) Evaluation: • Meaning, importance and Objective of Evaluation. • Evaluation Devices o Oral test	**UNIT-IV** **No Change**

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○ Written Test ○ Practical test ○ Diagnostic testing • Observation • Rating Scale	
Paper-VI & VII (Group B) Opt (iv): **TEACHING OF COMPUTER SCIENCE** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) **UNIT-I** 1) Importance Aims and objectives • Importence of Computer Science in School Curriculum. • General aims and objectives of Teaching Computer Science • Bloom's Taxonomy of Educational objectives • Formulation of Specific objectives in Behaviour terms 2) Contents & Pedagogical Analysis • Computer System • Operating System • Net-Working • M.S. Windows • MS Office • Information Technology & Computers. 3) Pedagogical Analysis Following points should be followed for pedagogical Analysis:- • Identification of Concept • Enlisting Behavioural outcomes. • Enlisting activities and experiments • Enlisting evaluation techniques Teachers will demonstrate pedagogical analysis of any one of the topics mentioned under contents above(Unit-II , part-I). The examiner, therefore, can ask the pedagogical analysis of any of the given topics. **UNIT-II** 4) Instructional Planning, Development, & Utilization of Instructional Material Instructional Planning • Unit Planning • Lesson Planning 5) Development of Instructional Material • Development of Text Books • Development of Self Instructional Material • Development of Computer assisted instructional material • Utilization of TV(Vedio), Films, OHP, Computer. 6) Designing and Managing Computer Laboratory • Importance of Computer Laboratory and its importance • Physical conditions and layout of Computer	**Paper-VI & VII (Group B) Opt (iv):** **TEACHING OF COMPUTER SCIENCE** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) **UNIT-I** **1. Importance Aims and objectives** • Importance of Computer Science in School Curriculum. • General aims and objectives of Teaching Computer Science • Bloom's Taxonomy of Educational objectives • Formulation of Specific objectives in Behaviour terms **2. Content and Pedagogical Analysis** • Computer System • Operating System • Net-Working • M.S. Windows • MS Office • Information Technology **Following points should be followed for pedagogical analysis:** • **Identification of concepts** • **Listing behavioural outcomes** • **Listing activities and experiments** • **Listing evaluation techiques** **UNIT-II** **3. Instructional Planning** • **Unit Planning** • **Lesson Planning** **4. Methods of Teaching** • **Lecture -Demonstration Method** • **Inductive-Deductive Method** • **Problem-Solving Method** • **Project Method**

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Laboratory • Managing a Computer Laboratory **UNIT-III** 7) Methods of Teaching and Micro Teaching Skills:- Methods of Teaching • Lecture -Demonstrative Method • Inductive-Deductive Method • Problem-Solving Method • Project Method 8) Micro Teaching Skills • Skill of Introducing the lesson • Skill of questioning • Skill of illustration with examples • Skill of Explaining • Skill of stimulus Variations 9) Evaluation • Concept, need, importance and type of evaluation • Formative Evaluation • Summative Evaluation • Attributes of Good Achievement Test • Types of Tests used in Computer Science	**UNIT-III** **5. Development & Utilization of Instructional Material** • Development of Text Books • Development of Self Instructional Material • Development of Computer assisted instructional material • Utilization of TV(Vedio), Films, OHP, Computer. **6. Designing and Managing Computer Laboratory** • Importance of Computer Laboratory • Physical conditions and layout of Computer Laboratory • Managing a Computer Laboratory **UNIT-IV** **7. Micro Teaching Skills** • **Skill of Introducing the lesson** • **Skill of Questioning** • **Skill of Illustration with examples** • **Skill of Explaining** • **Skill of Stimulus Variations** **8. Evaluation** • **Concept, need, importance and type of evaluation** • **Formative Evaluation** • **Summative Evaluation** • **Attributes of a Good Achievement Test** • **Types of Tests used in Computer Science**
PAPER-VI & VII (Group B) Opt. (v): TEACHING OF HOME SCIENCE Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS **UNIT-I** 1) Home Science • The Concept, meaning and components • Place of Home Science in Secondary Education. • Aims and Objectives of teaching of Home Science. 2) Writing objectives in behavioural terms • Correlation of Home Science with other school subjects.	**PAPER-VI & VII (Group B) Opt. (v): TEACHING OF HOME SCIENCE** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS **UNIT-I** 1. Home Science • The Concept, meaning and components • Place of Home Science in Secondary Education. • Aims and Objectives of teaching of Home Science. • **Writing objectives in behavioural terms** **2. Relationship of Home Science with other school subjects.**

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UNIT-II 3) Content: • Foods, Nutrition & Health • Child Care • Fiber and Fabric 4) Pedagogical analysis: Following points should be followed for pedagogical analysis on any one of the content topics covered in the syllabus • Identification of concept • Listing behavioral outcomes • Listing activities and experiments. • Listing evaluation techniques. 5) Home management • importance of planning • principles of budget making • Hygiene and sanitation	**UNIT-II** **3. Content & Pedagogical analysis** • **Foods, Nutrition & Health** • **Child Care** • **Fiber and Fabric** • **Home management** **Following points should be followed for pedagogical analysis :** • **Identification of concept** • **Listing behavioral outcomes** • **Listing activities and experiments.** • **Listing evaluation techniques.** **4. Home management** • **importance of planning** • **principles of budget making** • **Hygiene and sanitation**
UNIT-III 6) Methods of Teaching and Micro-teaching Skills • General principles and methods of teaching-Project method, Discussion method, Demonstration, Practical and Individual work • Micro-teaching skill-Explaining, Questioning, Illustration and Stimulus Variation. 7) Home Science Laboratory • Concept and importance • Planning of space and equipment for Home Science Laboratory	**UNIT-III** **No change**
UNIT-IV 8) Curriculum, Teaching Aids, Lesson Plan, Textbook and Home Science Laboratory • Development and designing of curriculum • Teaching aids-classification and importance • Concept of lesson plan, preparation of lesson plan • Development of text-books 9) Evaluation • Evaluation in Home Science-Meaning and importance of evaluation • Comprehensive and continuous evaluation • Evaluation devices-written, oral, observation, practical work, assignment	**UNIT –IV** **No Change**
PAPER-VI & VII (Group C) Opt. (i): TEACHING OF MATHEMATICS Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS **UNIT-I** 1) Concept and aims of Mathematics	**PAPER-VI & VII (Group C) Opt. (i): TEACHING OF MATHEMATICS** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS **UNIT-I**

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• Meaning, Nature and Historical Development of Mathematics. • Assumption, postulates, axiom of Mathematics, and Fundamentals of logic namely: use of if and then, and If and only If. • Values to be taught through teaching of Mathematics. • Aims and Objectives of Teaching Mathematics at Secondary stage. • Writing objectives in terms of behavioural outcomes of students. 2) Diagnostic Testing and Remedial Teaching for: • Gifted Learners • Slow Learners • Learners with Dyscalculia • Difficulties Faced by the Teacher in Teaching of Mathematics and Suggestive Measures to overcome them.	**No Change**
UNIT-II 3) Methods of Teaching Mathematics • Lecture-cum-Demonstration • Inductive-Deductive • Analytic-Synthetic • Problem Solving • Laboratory • Project 4) Techniques of teaching Mathematics • Oral work • Written Work • Drill-work • Brain-storming • Home Assignment • Self-study • Supervised Study	**UNIT-II** **No Change**
UNIT-III 5) Learning Resource • Importance and Organization of Mathematics Club • Recreational Activities of Mathematics Club: o Mathematics Fairs; o Games o Quiz o Puzzles o Visits o Talks • Visits, Excursions, Math Exhibitions and Mathematics Fairs. • Importance and Setting up of Math Laboratories. • Importance of Support Material: Reference Material – Encyclopedia, News Letters and Magazines. On-line and off-line Resources.	**UNIT-III** **5. Learning Resource** • Importance and Organization of Mathematics Club • Recreational Activities of Mathematics Club: o Mathematics Fairs; o Games, Puzzles o Quiz o Visits o Talks o Math Exhibitions o Excursions • Importance and Setting up of Math Laboratories • Importance of Support Material: Reference Material – Encyclopedia, News Letters and Magazines. On-line and off-line Resources. **6. Unit Analysis:** • Objectives Formulation. • Learning Experience. • Choosing Method and Material.
UNIT-IV 6) Pedagogical Analysis	

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Unit Analysis: • Objectives Formulation. • Learning Experience. • Choosing Method and Material. • Evaluation. 7) Contents: • Mean, Medium, Mode and Central tendency • Congruency • Trigonometry • Area • Volume • Linear and Quadratic Equations • Ratio and Proportion. 8) Pedagogical analysis: Pedagogical analysis on any of the contents covered in the syllabus should be done on the following points: • Identification of concepts • Listing behavioural Outcomes. • Listing Activities and experiences • Listing Evaluation Techniques. **UNIT-IV** 9) Instructional Planning & Material Development. • Preparation of Micro Lesson Plan • Preparation of Simulated Lesson Plan. • Preparation of Classroom Lesson Plan. • Preparation and use of Audio-Visual Material and equipments. • Professional Growth of Mathematics Teacher • Application of I.C.T in Teaching of Mathematics. 10) Evaluation. • Comprehensive and continuous Evaluation • Development of Test Items: o Short-Answer Type o Objective-Type • Diagnostic Testing and Remedial Technique • Preparation of an Achievement Test. • Criterion and Norm Reference Test.	• Evaluation. **7. Content & Pedagogical Analysis:** • **Mean, Median and Mode** • **Congruency** • **Trigonometry** • **Area** • **Volume** • **Linear and Quadratic Equations** • **Ratio and Proportion** **Following points should be followed for pedagogical analysis:-** • **Identification of concepts** • **Objective formulation** • **Listing behavioural Outcomes, activities ,experiences and methods** • **Listing Evaluation Techniques** **UNIT-IV** **8. Instructional Planning & Material Development** • Preparation of Micro Lesson Plan • Preparation of Simulated Lesson Plan • Preparation of Classroom Lesson Plan • Preparation and use of Audio-Visual Material and Equipments • Professional Growth of Mathematics Teacher • Application of I.C.T in Teaching of Mathematics **9. Evaluation** • Comprehensive and Continuous Evaluation • Development of Test Items: o Short-Answer Type o Objective-Type • Diagnostic Testing and Remedial Teaching • Preparation of an Achievement Test • Criterion and Norm Referenced Test
PAPER-VI, VII Group-C (Opt. v): **TEACHING OF LIFE SCIENCES** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS UNIT-I 1) Importance. Aims and Objectives • Importance of Life Science in School Curriculum • General aims and objectives of teaching Life Science • Bloom's taxonomy of educational objectives • Formulation of specific objective of	**PAPER-VI, VII Group-C (Opt. v):** **TEACHING OF LIFE SCIENCES** Time: 3 Hours Max. Marks: 100 (External: 80, Internal: 20) COURSE CONTENTS UNIT-I **1. Importance, Aims and Objectives** • Importance of Life Science in School Curriculum • General aims and objectives of teaching Life Science • Bloom's taxonomy of educational objectives • Formulation of specific objective of

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behavioural terms 2) Contents • Photosynthesis • Human digestive system-Respiratory, Excretory, Circulatory • Cell structure • Micro-organism • Food chain • Ecological balance 3) Following points should be followed be followed for pedagogical analysis • Identification of concepts • Listing behavioural outcomes • Listing activities and experiments • Listing evaluation techniques	behavioural terms **2. Content and Pedagogical Analysis** • **Photosynthesis** • **Human digestive system-Respiratory, Excretory, Circulatory** • **Cell structure** • **Micro-organism** • **Food chain** • **Ecological balance** **Following points should be followed be followed for pedagogical analysis:** • **Identification of concepts** • **Listing behavioural outcomes** • **Listing activities and experiments** • **Listing evaluation techniques**
UNIT-II 4) Development of Instructional Material • Transaction of contents • Unit Planning • Lesson Planning • Preparation of teaching aids. • Development of aquarium, Vivarium etc • Development of demonstration experiments 5) Development of self-instructional material (Linear programme)	**UNIT-II** **3. Development of Instructional Material** • Transaction of contents • Unit Planning • Lesson Planning • Preparation of teaching aids. • Development of aquarium, Vivarium etc • Development of demonstration experiments **4. Development of self-instructional material (Linear programme)**
UNIT-III 6) Methods of Teaching • Lecture-demonstration method • Project method • Problem-solving method 7) Practical skills • Preparation of temporary and permanent mounts • Collection and preservation of specimen	**UNIT-III** **5. Methods of Teaching** • Lecture-demonstration method • Project method • Problem-solving method **6. Practical skills** • Preparation of temporary and permanent mounts • Collection and preservation of specimen
UNIT-IV 8) Micro-teaching skills • Skill of introducing the lesson (set induction) • Skill of questioning • Skill of illustration • Skill of explaining • Skill of stimulus variation 9) Evaluation • Concept of measurement and evaluation • Formative evaluation • Summative evaluation • Different types of grading • Attributes of a good achievements test • Preparation of an objective type an achievement test	**UNIT-IV** **7. Micro-teaching skills** • Skill of introducing the lesson (set induction) • Skill of questioning • Skill of illustration • Skill of explaining • Skill of stimulus variation **8. Evaluation** • Concept of measurement and evaluation • Formative evaluation • Summative evaluation • Different types of grading • Attributes of a good achievements test • Preparation of an objective type an achievement test

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Similarly, the practicum/sessionals were also missing (not given) in the certain teaching subjects (papers VI & VII) and in Part-II- Practicals- Papers VIII-A & VIII-B of existing B.Ed syllabus(2010-11). Therefore, the same was included/added as under in those papers:	
PAPER-VI &VII (Group A) Opt. (iii): **TEACHING OF PUNJABI** **Practicum/Sessionals Max. Marks: 20** **Not mentioned**	**PAPER-VI &VII (Group A) Opt. (iii):** **TEACHING OF PUNJABI** **Practicum/Sessionals Max. Marks: 20** Preparation of Diagnostic tests, Achievement test and reading comprehension test of any levels.
PAPER-VI, VII Group-B (Opt. vii): **TEACHING OF ECONOMICS** **Practicum/Sessionals Max. Marks: 20** **Any two of the following**	**PAPER-VI, VII Group-B (Opt. vii):** **TEACHING OF ECONOMICS** **Practicum/Sessionals Max. Marks: 20** Preparation of Diagnostic and Achievement tests.
PAPER- VI, VII Group-B (Opt.viii): **TEACHING OF HISTORY** **Practicum/Sessionals Max. Marks: 20** **Any two of the following**	**PAPER- VI, VII Group-B (Opt.viii):** **TEACHING OF HISTORY** **Practicum/Sessionals Max. Marks: 20** Preparation of Diagnostic and Achievement tests.
PAPER-VI, VII Group-B (Opt. ix): **TEACHING OF CIVICS** **Practicum/Sessionals Max. Marks: 20** **Any two of the following**	**PAPER-VI, VII Group-B (Opt. ix):** **TEACHING OF CIVICS** **Practicum/Sessionals Max. Marks: 20** Preparation of Diagnostic and Achievement tests.
PAPER-VIII A: **ICT ENABLED PRACTICAL/PROJECTS** **Practicum/Sessionals Max. Marks: 10** **Not Mentioned**	**PAPER-VIII A: ICT ENABLED PRACTICAL/PROJECTS** **Practicum/Sessionals Max. Marks: 10** 1. Development/preparation of diagrams/pictures by using Graphic Package like Excel, Paint Brush, and Power Point etc. 2. Preparation and editing a document in MS Word. 3. Entering data and creating graph in MS Excel.
PAPER VIII B- COMMUNITY BASED PROJECTS AND WORK EXPERIENCES **Practicum/Sessionals** **Not Mentioned**	**PAPER VIII B- COMMUNITY BASED PROJECTS AND WORK EXPERIENCES** **Practicum/Sessionals** **Max. Marks: 05 each for the two projects** Collection of News items/Photos related to the content of the Project(s) to be carried out/completed by the students.

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V-Semester

Paper 501 **Economics-II**

Max. Marks: 80
Time: 3 hours

Note:

(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT-I

Introduction to Indian Economy:
Basic Structure, National income and its sectoral distribution and measurement of National Income.
Poverty: Nature, extent, causes and impact.
Unemployment and Employment Generation Schemes.
Population problem: A review of major population control programmes.

UNIT-II

Planning for development: appraisal of development strategies and their impact through successive Five Year Plans.
India's Agriculture Development: basic characteristics and problems of Agricultural Economy, trends in growth of Agricultural Production and Productivity, Green Revolution, Land Reforms.

UNIT-III

Industrial Development:
Trends in Industrial Production and Productivity, Comparative role of public, private and joint sectors, Industrial Relations, New Economic Reforms, Liberalisation, Privatisation, Globaliasation and New Economic order (WTO).

UNIT-IV

External Sector, trends in volume, composition and direction, India's Foreign Trade, Policies for Export promotion and Import substitution, India's BOP structure and Measures to correct adverse BOP, Nature, working and functions of IMF and IBRD.

Suggested Readings

Agarwal A.N.	:	Indian Economy
Bhatia, H.L.	:	Indian Economy-Issues and Policies
Chaudhary, P.K.	:	The Indian Economy-Poverty and Development
Rath, N & Dandekar, B.M.	:	Poverty in India
Datt, Rudder & Sunderam, KPM	:	Indian Economy
Gauri Shankar V.	:	Taming the Giants- Multinational Corporations in India
Ghosh, Alok	:	Indian Economy
Jathar, J.B. & Ben, C.A.	:	Indian Economic Problems
Kurian, C.T.	:	Planning, Poverty and Social Transformation
Mahajan, V.S.	:	Economic Development of India
Rangarajan, L.N	:	Commodity Conflict- The Political Economy of International Commodity Negotiations

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V-Semester

Paper 502 **Political Science –V**

(Indian Politics)

Max. Marks: 80
Time: 3 hours

Note:

(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT I

Federalism and its Working: Centre-State Relations.
Demand for State Autonomy.
Emerging Trends in Indian Federalism.

UNIT-II

Elections in India: Voting Behaviour.
Election Commission, Electoral Process and its Defects.
Problem of Defection and Electoral Reforms.

UNIT III

Party System in India : National Political Parties
and Regional Political Parties.
Major Interest and Pressure Groups.

UNIT IV

Factors in Indian Politics: Role of Caste, Religion,
Language, Regionalism and Politics of Reservation.
Emerging Trends and Challenges before Indian Political System.

Suggested Readings

1.	Austin G.	:	Working a Democratic Constitution : The Indian Experience
2.	Basu D.D.	:	An Introduction to the Constitution of India
3.	Basu D.D. and Parekh B. (ed.)	:	Crisis and Change in Contemporary India
4.	Bhambhri C.P.:		The Indian State: fifty years
5.	Brass P.	:	Politics of India Since Independence
6.	Fadia B.L.	:	State Politics in India.
7.	Kothari R.	:	Politics in India
8.	Kothari R.	:	Party System and Election Studies
9.	Morris Jones W.H.	:	Government and Politics in India
10.	Thakur R.	:	The Government & Politics of India

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V- Semester

Paper 503 **Family Law-I**

Max. Marks: 80
Time: 3 hours

Note:

(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT-I

Application of Hindu Law
Who are Hindus before and after Codification
Sources of Hindu Law : Ancient Sources, Modern Sources
Schools of Hindu Law : Mitakshara & Dayabhaga School, Difference between the two Schools
Hindu Marriage Act, 1955 : Territorial application of Hindu Marriage Act,Nature of Marriage
Essential Conditions for Hindu Marriages : Monogamy, Mental Condition of parties,
Age Requirement, Sapinda Relationship, Prohibited Degree
Requirement of Solemnization of Marriage/ Registration of Marriage

Leading Case: - Shastri Yagnapurusdasji v. Mulldas, AIR 1966 SC 1119.

UNIT-II

Hindu Marriage Act, 1955 :
Nullity of Marriage : Void Marriages, Voidable Marriages, Distinction between Void & Voidable Marriages, Children of Void & Voidable Marriages
Restitution of Conjugal Rights, Judicial Separation, Difference between Judicial Separation & Divorce
Divorce:- Fault Grounds of Divorce, Adultery, Cruelty, Desertion, Conversion,
Insanity Leprosy, Venereal Disease, Renunciation of World, Presumption of Death
Wife's Special Grounds for Divorce, Breakdown Grounds of Divorce, Divorce by Mutual Consent, One year Bar to Divorce, Bar to Remarriage after Divorce
Ancillary Reliefs : Maintenance & Alimony,Maintenance Pendente Lite & Expenses of the Proceedings, Permanent Maintenance & Alimony, Custody of Children,
Distribution of joint property

Leading Case:- Naveen Kohli v. Neelu Kohli, (2006) 4 SCC 558

UNIT- III

The Family Courts Act, 1984:
Nature and Scope, Composition of family Court, Jurisdiction and procedure of adjudication, Civil Marriage Law especially the Special Marriage Act,1954.
Hindu Adoptions & Maintenance Act, 1956:
Meaning of Adoption , Who can take in Adoption, Restrictive Conditions of Adoption, Who can give in Adoption, Who can be taken in Adoption, Ceremonies of Adoption, Giving & Taking in Adoption, Effects of Adoption

Leading Case : - Vijayalakshmamma v. B.T. Shankar AIR 2001 SC 1424

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UNIT-IV

Muslim Law: Marriage: A Social Contract, Kinds of Marriage
Classification of Marriage: Sahih Marriage (Valid), Fasid Marriage (Irregular),Batil Marriage (Void),
Formal Validity: Formalities, Registration of Marriage. Presumption of Marriage, Essential Incidents of Valid Muslim Marriage, Consequences of Valid Marriage, Dower, Gift.
Guardianship: Classification of Guardians, Powers of Guardians, Custody.

Leading Case: - Syed Shah Ghulam Ghouse Mohiuddin v. Syed Shah Ahmed Mohiuddin Kamisul Quadri (1971) 1 SCC 597

Statutory Material:-

Family Courts Act, 1984
Hindu Marriage Act 1955
Hindu Adoption and Maintenance Act 1956
Muslim Personal Law (Shariat) Application Act, 1937
Special Marriage Act, 1954

Suggested Readings:-

1. Ahmad Aquil : Muslim Law
2. Brinder K Sharma : Hindu Law
3. Derrett : An Introduction to Modern Hindu Law
4. Faiz, A.A.A. : Muslim Law
5. Paras Diwan : Muslim Law in Modern India\
6. Paras Diwan : Modern Hindu Law
7. Qureshi, M. A. : Muslim Law

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B. A. LL. B. (Hons.) 5-year Integrated Course

V- Semester

Paper 504 **Law of Crimes–II**

(Code of Criminal Procedure, 1973)

Max. Marks: 80
Time: 3 hours

Note:

(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT-I

Purpose and Importance of Criminal Procedure; Preliminary (Chapter-I), Classes and Powers of Criminal Courts (Chapter-II & Chapter-III), Arrest of Person (Chapter-V), Process to compel appearance of persons and production of things (Chapter VI, VII & VII-A), Security for keeping peace and for good behavior (Chapter VIII), Order for maintenance of Wives, Children and Parents (Chapter IX)

Leading Case: - **Mohd. Ahmed Khan v. Shah Bano Begum, AIR 1985 SC 945.**

UNIT-II

Maintenance of Public Order and Tranquility (Chapter-X), Preventive action of the police (Chapter-XI), Information to the Police and their powers to Investigate (Chapter-XII), Jurisdiction of Criminal Courts in Inquiries and Trials (Chapter XIII), Condition requisite for initiation of proceedings (Chapter XIV), Complaints to Magistrates (Chapter-XV& XVI)

Leading Case: - **Rupan Deol Bajaj v. K.P.S.Gill & Anr., AIR 1996 SC 309**

UNIT-III

The Charge (Chapter XVII), Trial before a court of session (Chapter XVIII), Trial of Warrant Cases and Summons Cases by Magistrate (Chapter XIX & XX), Summary Trial (Chapter -XXI) Plea Bargaining (Chapter XXI-A), Evidence in Inquiries and Trials (Chapter XXIII- XXIV)

.

Leading Case: - **State of Maharashtra v. Som Nath Thapa, (1996) Cr. L. J. 2448 (S.C.)**

UNIT-IV

The Judgment (Chapter XXVII), Appeals, Reference and Revision (Chapter XXIX, XXX), Execution, Suspension, Remission and Commutation of sentences (Chapter XXXII), Provisions as to Bail and Bonds (Chapter XXXIII), Irregular Proceedings (Chapter XXXV), Limitation for taking Cognizance of certain offences (Chapter XXXVI)

Leading Case: - **Gurubaksh Singh v. State of Punjab, AIR 1980 SC 1632**

Statutory Material

The Code of Criminal Procedure, 1973

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Suggested Readings

1. Kelkar, R.V. : Outlines of Criminal Procedure
2. Ratanlal Dhirajlal : The Code of Criminal Procedure, 1973
3. Tyagi, Shorvir : The Code of Criminal Procedure, 1973
4. Mishra, S.N. : The Code of Criminal Procedure, 1973
5. Tondon, M.P. : Criminal Procedure Code
6. Basu, N.D. : Code of Criminal Procedure, 1973
7. Sarkar, S.C. : Criminal Procedure
8. Batuk , Lal : Commentary on The Code of Criminal Procedure, 1973

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B. A. LL. B. (Hons.) 5-year Integrated Course

V- Semester

Paper 505 **Labour & Industrial Law-1**

Max. Marks: 80
Time : 3 Hours

Note:
(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT-I

Industrial Dispute Act, 1947
(a) Concepts of Industry, workman, Industrial Dispute and Individual Dispute
(b) Arena of interaction and Participants– Industry, workman and employer
(c) Settlement of industrial dispute:
Works Committee
Conciliation Machinery
Court of Enquiry
Voluntary Arbitration
Adjudication – Labour Court, Tribunal and National Tribunal
(d) Powers of the Appropriate Government under the Industrial Disputes Act, 1947
(e) Unfair Labour Practice

Leading Cases- Banglore Water Supply v. Rajappa AIR 1978 SC 548

UNIT-II

Instruments of Economic Coercion:
(a) Concept of strike, Types of strike, Rights to strike and Lock-out
General Prohibition of strikes and lock-outs
Prohibition of strikes and lock-outs in public utility services
Illegal strikes and lock-outs
Justification of strikes and lock-outs
Penalties for illegal strikes and Lock-outs
Wages for strikes and lock-outs
(b) Lay-off
Retrenchment
Transfer and Closure – Definition of lay-off and retrenchment compensation
Compensation to workmen in case of transfer of undertaking closure
Closure - Prevention and regulation
Conditions – precedent for retrenchment
Special provisions relating to lay-off, retrenchment and closure in certain establishments
Procedure for retrenchment and re-employment of retrenched workmen and penalty
(c) Disciplinary action and domestic enquiry
(d) Management's prerogative during the pendency of proceedings
(e) Notice of change

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Leading Case-T.K.Rangarajan v. Government of Tamil Nadu 2003 SCC (L&S) 970

UNIT-III

Trade Unions and Collective Bargaining:
(a) Definition of trade union and trade dispute
(b) Registration of trade unions:
- Legal status of registered trade union
- Mode of registration
- Powers and duties of Registrar
- Cancellation and dissolution of trade union

(c) Disqualifications of office-bearers, Rights and duties of office-bearers and members
(d) General and Political funds of trade union.
(e) Civil and Criminal Immunities of Registered trade union.
(f) Recognition of trade union.
(g) Collective bargaining.

Leading Case:- Chairman S.B.I. and another v. AII Orissa State Bank Officer's Association and others, 2002 SCC(L&S) 805

Unit-IV

The Industrial Employment (Standing Order) Act,1946
(a) Concept and nature of standing orders
(b) Scope and coverage of the Industrial Employment (Standing Orders) Act, 1946
(c) Certification process:
- Procedure for certification
- Appeals against certification
- Condition for certification
- Date of operation of standing orders
- Building nature and effect of certified standing orders
- Posting of standing orders

(d) Modification and temporary application of model Standing Orders
(e) Interpretation and enforcement of Standing Orders
(f) Penalties and procedure

Leading Case:- U.P. State Electricity Board v. Hari Shanker Jain 1978(4) SCC 15 1

Statutory Material

Industrial Dispute Act, 1947
Trade Union Act, 1926
Industrial Employment (Standing Orders) Act, 1946

Suggested Readings

1. Srivastava, S.C. : Labour and Industrial Laws
2. Varandani, G. : Social Security for Industrial Workers in India
3. Mishra, S.K. : Labour and Industrial Law of India
4. Sabharwal, R.K. : Job Security for Industrial Workers etc.
5. Goswami, V. G. : Labour Industrial Laws

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B. A. LL. B. (Hons.) 5-year Integrated Course

V- Semester

Paper 506 Company Law & Corporate Governance

Max. Marks: 80
Time: 3 hours

Note:

(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT-I

Company- Meaning and Nature of Company, Kinds of Company, Corporate personality, Lifting of corporate veil, Memorandum of Association, Doctrine of ultra vires; Article of Association- its relation with Memorandum of Association, Doctrine of Constructive Notice, Doctrine of Indoor Management with exceptions

.

Leading Case- Saloman v. Saloman and Co. (1897) AC 22

UNIT-II

Prospectus- its contents, Prospectus and statement in lieu of prospectus, their importance; liability for mis-statement. Shares – Meaning, nature and scope, statutory restrictions, transfer & transmission of share and kinds of shares.

Debentures-Meaning and Nature, Scope, kinds of debentures; charges & classification of charges.

Leading Case- LIC v. Escort Ltd. (1986) (1) SCC 264, (1986) 59 Comp. cas. 548.

UNIT-III

Share holder's Meetings and kinds of Meetings, Majority power and Minority rights –rule laid down in Foss v. Harbottle with exceptions Directors- Constitution of Board of Directors, Appointment of directors, qualification including Share qualification, Duties and Liabilities of Directors,

Prevention of oppression and mismanagement

Leading Case- Shanti Prasad Jain v. Kalinga Tubes Ltd. AIR 1965 S.C. 1535

UNIT-IV

Winding up-Meaning, Scope and Kinds of winding up- voluntary winding up, Compulsory winding up by National Company Law Tribunal, Liquidator and official liquidator- Appointment and Powers.

Leading Case- Sree Shan Mugar Mills v. Dharmaraja Nadar AIR 1970 Mad 203

Statutory Material

Companies Act, 1956

Suggested Readings

1. Singh, Avtar : Company Law
2. Gower, LCB : The Principles of Modern Company Law
3. Shah, S.M. : Lecturers on Company Law
4. Palmer : Company Law

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B. A. LL. B. (Hons.) 5-year Integrated Course

VI- Semester

Paper 601 **Economics- III**

(Law & Economics)

Max. Marks: 80
Time: 3 hours

Note:

(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT-I

Relationship between Economics & Law, Economics as a basis of social welfare & social justices, Economic systems: Capitalist, Socialist and Mixed Economic systems, Consumer Protection Act.

UNIT-II

Environmental Economics and Law: environment as a necessity and luxury, Population- Environment Linkage, Environment as a Public good, Prevention and Control of Pollution, Environmental Legislation, Sustainable Development.

UNIT-III

Economic Industrialization and Law: Meaning of Industrialization, Importance of Industrialization, State Policy and Industrialization, Factors affecting Industrialization, Development and Regulation of Industries- Industrial (Development and Regulation) Act, 1951-An overview

UNIT-IV

Meaning of Industrial relation; Industrial discipline, Industrial unrest, Trade Unionism, Worker's participation, Social Security Measures.
Protection: SEBI Act 1992 Basic Provisions and Guidelines regarding investors protection

Statutory Material

SEBI Act, 1992
Industries (development and Regulation) Act, 1951

Suggested Readings

1. Jain T.R : Development and Environmental Economics and International Trade
2. Bhushan Y.K. : Fundamentals of Business organization and Management
3. Misra and Puri : Economics of Development and Planning
4. Misra and Puri : Indian Economy
4. Myneni : Indian Economy (of Law Course)
5. Gopal Krishnan K.C. : Legal Economics (Instructional Dimensions of Economics and Law)
6. Robert Coater, Thomus Ulen : Law and Economics
7. Datt. Rudder & Sundaram : Indian Economy

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B. A. LL. B. (Hons.) 5-year Integrated Course
VI- Semester
Paper 602 **Political Science -VI**
(Foreign Policy of India)

Max. Marks: 80
Time: 3 hours

Note:
(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks**.**

UNIT-I

Foreign Policy: Meaning and Importance.
Principles and objectives of Indian Foreign Policy.
Determinants of Indian Foreign Policy: Internal and External.

UNIT-II

Cold War and Foreign Policy of India.
Non Alignment and Foreign Policy of India.
India's Foreign Policy and issue of disarmament.

UNIT-III

India and the United Nations.
India and the SAARC.
Relationship of India with Pakistan and People's Republic of China.

UNIT-IV

Foreign Policy of India with respect to:
1. the USA,
2. the USSR/Russia.

Assessment of India's Foreign Policy.

Suggested Readings

1. Achin Vanaik: India in a Changing World
2. Raja Mohan C. : Crossing the Rubicon: The Shaping of India's Foreign Policy
3. Kux Dennis : India and the United Sates: Estranged Democracies, 1941-1991
4. Harish Kapur :India's Foreign Policy, 1947-1992
5. Imtiaz Ahmed (ed.) :Indian Foreign Policy
6. Dixit J.N.: Indian Foreign Policy and its Neighbours
7. Dixit J.N : Across Borders: Fifty Years of India's Foreign Policy
8. Dixit J.N. : Indian Foreign Policy, 1947-2003
9. Bajpai Kanti P. and Amitabh Mattoo : Securing India : Strategic Thought and Practice
10. Rajan M.S. : India and International Affairs: A Collection of Essays
11. Dutt V.P. : India's Foreign Policy in a Changing World.
12. Yadav R.S. & Suresh Dhanda, : India's Foreign Policy: Contemporary Trends

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B. A. LL. B. (Hons.) 5-year Integrated Course

VI-Semester

Paper 603 **Family Law-II**

Max. Marks: 80
Time: 3 hours

Note:
(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT-I

Mitakshara Hindu Joint Family & Coparcenary system and Hindu Joint Family Property and its alienation.
Karta`s power of alienation and Coparcener's power of alienation.
Hindu Adoptions & Maintenance Act, 1956:
Maintenance to Wife, Maintenance to Children, Maintenance to aged or infirm Parents, Maintenance of Dependents, Maintenance to the members of the joint family.
Quantum of Maintenance.
Maintenance and Welfare of Parents & Senior Citizens Act, 2007-An overview.

Leading Case: - Rani v. Santa Bala Debnath AIR 1971 SC 1028

UNIT-II

Hindu Minority & Guardianship Act, 1956:
Guardianship of the person: Natural Guardianship, Testamentary Guardianship Guardianship appointed by the court
Guardianship of Minor's property: Natural Guardianship's power, Testamentary Guardian's powers, Certificated Guardian's powers
Defacto Guardian, Removal of Guardians.

Leading Case:- Githa Hariharan v. Reserve Bank of India AIR 1999 SC 1149

UNIT-III

Hindu Succession Act, 1956:
Succession to the property of a Hindu Male : Devolution of Interest in Coparcenary Property, General Rules of Succession in case of males, Order of Succession among heirs in the Schedule, Distribution of property among heirs in Class I of the Schedule, Distribution of property among heirs in Class II of the Schedule,
Order of Succession among Agnates & Cognates

Succession to the property of a Hindu Female : Nature of Female Hindu's Property, General Rules of Succession in case of Female Hindu, Order of Succession & Manner of Distribution among heirs of a female Hindu, Position Regarding Dwelling House, Disqualification to inheritance

Leading Case:- Gurupad v. Hira Bai AIR 1978 SC 1239

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UNIT-IV

Muslim Law:-
Sources of Muslim Law: Ancient Sources, Modern Sources
Schools of Muslim Law: Ancient Schools, Modern Schools : Hanafi School, Maliki School, Shafi School, Hanabali School, Shia Schoo.
Divorce : Talaq and Dissolution of Muslim Marriage.
Acknowledgement of legitimacy, Maintenance to Muslim Wife.

Leading Case:- Danial Latifi v. Union of India (2001) 7 SCC 740

Statutory Material

Hindu Adoptions & Maintenance Act, 1956
Hindu Minority & Gurdianship Act, 1956
Hindu Succession Act, 1956
Muslim Marriage Dissolution Act, 1939
Muslim Women (Protection of Rights on Divorce) Act, 1986
Maintenance & Welfare of Parents and Senior Citizens Act, 2007

Suggested Readings

1. Aquil Ahmad : Muslim Law
2. Birender Kr. Sharma : Hindu Law
3. Derrett : An Introduction to Modern Hindu Law.
4. Fazi A.A.A. : Muslim Law
5. Paras Diwan : Modern Hindu Law.
6. Paras Diwan : Muslim Law in Modern India.

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B. A. LL. B. (Hons.) 5-year Integrated Course

VI- Semester

Paper 604 **Law of Evidence**

Max. Marks: 80
Time: 3 hours

Note:

(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT- I

Definitions – Evidence, Relevancy, Fact, Court (Section 3)
May presume, shall presume and conclusive proof (Section 4)
Relevant facts (Section 5-16)
Admissions – (Sections 17-23 and 31)

Leading Case: Shiv Charan v. State of Haryana AIR 1987 SC I

UNIT- II

Confessions – (Sections 24-30) ;Distinction between admission and confession
Statements by persons who cannot be called as witness (Section 32-33)
Statements made under Special Circumstances (Sections 34-39)
Judgments of Court of Justice When relevant (Section 40-44).
Opinion of third person when relevant – (Section 45-51)

Leading Case: Pakala Narayan Swamy v. Emperor AIR 1939 PC 47

UNIT- III

Character when relevant (Sections 52-55)
Oral Evidence (Sections 59- 60)
Documentary Evidence (Sections 61-78)
Presumption as to documents (Sections 79- 90-A)
Exclusion of oral by documentary Evidence (Sections 91-100)
Burden of Proof (Sections 101-111)

Leading Case: State of Bombay v. Kathi Kalu Oghad AIR 1961 SC 1808

UNIT- IV

Presumption on the certain offences (Sections 111A-114A)
Estoppel (Sections 115-117)
Privileged Communication (Sections 121-132)
Accomplice (Section 133)
Examination of Witnesses:- Examination-in-Chief, cross-examination, leading questions, Hostile witness, Impeaching the credit of a witness, Refreshing of memory (Sections 135-166)

Leading Case: Union of India v. Indo Afghan Agency Ltd. AIR 1968 SC 718

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Statutory Material

Indian Evidence Act, 1872

Suggested Readings

1. Field C.D.	:	Law of Evidence
2. Pandey G.S.	:	Indian Evidence Act
3. Rattan Lal Dheeraj Lal	:	Law of Evidence
4. Batuk Lal	:	Law of Evidence

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B. A. LL. B. (Hons.) 5-year Integrated Course

VI- Semester

Paper 605 **Labour & Industrial Law-II**

Max. Marks: 80
Time: 3 hours

Note:

(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT-I

Workmen's Compensation Act, 1923:
Definitions of dependant, workman, Partial disablement and Total disablement.
Employer's liability for compensation:-
Scope of arising out of and in the course of employment.
Doctrine of notional extension.
When employer is not liable.
Distribution of Compensation.
Procedure in proceedings before Commissioner.
Appeals.

Leading Case: - M. Mackenzie v. I. M. Issak AIR 1970 SC 1006

UNIT-II

The Factories Act, 1948:
Concept of Factory, Manufacturing Process, Workers and Occupier.
General duties of occupier.
Measures to be taken in factories for health, safety and welfare of Workers.
Working hours of adults.
Employment of young person and children.
Annual leave with wages.
Additional provisions regulating employment of women in factory.

Leading Case: - Steel Authority of India Ltd. v. National Union Waterfront Worker, 2001 SCC (L&S) 1121

UNIT-III

Minimum Wages Act , 1948:
Concept of minimum wage, fair wage, living wage and need based minimum wage.
Theories of Wage.
Procedure for fixation and revision of minimum wages.
Fixation of minimum rates of wage by time rate or by piece rate.
Procedure for hearing and deciding claims.

Leading Case: - Hydro (Engineers) Pvt. Ltd. v. The Workmen AIR 1969 SC182

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UNIT-IV

Child Labour (Prohibition And Regulation) Act, 1986:
Aims and Objects of Act
Definition and scope of Child labour, Family,
Prohibition of Children in certain Occupations and processes
Regulation of conditions for work of children
Bonded Labour System (Abolition) Act, 1976:
Aims and Objects
Concept of Bonded Labour, Bonded Labourer, Bonded Labour System and Bonded debt
Abolition of Bonded Labour System
Extinguishments of Liability to repay bonded debt
Implementing Authorities

Leading Case:- M.C.Mehta v. State of Tamil Nadu AIR 1991 SC 417

Statutory Material

Workmen's Compensation Act, 1923:
The Factories Act, 1948
Minimum Wages Act, 1948
Child Labour (Prohibition and Regulation) Act, 1986
Bonded Labour System (Abolition) Act, 1976

Suggested Readings

1. Srivastava, S.C. : Labour and Industrial Laws
2. Goswami, V.G. : Labour and Industrial Laws
3. Mishra, S.N. : Labour and Industrial Law of India
4. Varandani, G. : Social Security for Industrial Workers in India
5. Paul Meenu : Labour and Industrial Laws

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B. A. LL. B. (Hons.) 5-year Integrated Course

VI-Semester

Paper 606 **Administrative Law and Right to Information**

Max. Marks: 80
Time: 3 hours

Note:

(a) Nine questions shall be set in all, two questions in each unit I-IV and one compulsory question in unit-V.
(b) The compulsory question in unit-V shall consist of four parts, one from each Unit I-IV.
(c) The Candidate shall be required to attempt five questions in all, selecting one question from each Unit I-IV and question no. 9 in Unit- V shall be compulsory.
(d) Each question in Unit I-IV shall carry 15 marks and question no. 9 in Unit -V shall carry 20 Marks.

UNIT-I

Nature, Scope and Functions of Administrative Law; Doctrine of separation of powers.
Rule of Law; Its Meaning, Scope and relevance under the Indian Constitution.
Delegated legislation: - Necessity, Scope, Forms, Constitutionality, sub-delegation, Conditional Legislation and Supervision of Delegated Legislation.
Judicial Review of delegated Legislation.

Leading Case: Union of India v. Cynamide India Ltd AIR 1987 SC 1802.

UNIT-II

The concept of Natural Justice and Fair Hearing.
Discretionary Powers-Failure to exercise a discretion.
Prevention of Abuse of Discretion – The principle of reasonableness, scope of Wednessbury Principle.
Doctrine of Proportionality.

Leading Case: Maneka Gandhi v. Union of India AIR 1978 SC 597

UNIT-III

Judicial Review of Administrative Actions through writs, Doctrine of Ultra Vires.
Exclusion of Judicial Review.
Judicial Control of Administrative Tribunals.
Public Corporations- Liability and judicial control.
Ombudsman - Lokpal and Lokayukta.

Leading Case: Shrilekha Vidyarthi v. State of UP, (1991) I SCC 228.

UNIT-IV

The Right to Information Act, 2005:
Definitions, Nature and Scope of Right to Information Act.
Right to Information and Obligations of Public Authorities.
The Central and State Information Commission, its Powers and Functions.
Appeal and Penalties.

Leading Case: The CPIO, Supreme Court Of India, v. Subhash Chandra Agarwal & Anr W.P.(C)288/2009, decided on 02-09-2009.

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Statutory Material

Constitution of India
Right to Information Act, 2005

Suggested Readings

1. Jain & Jain : Principles of Administrative Law.
2. Joshi, K.C. : Administrative Law.
3. Massey, I.P. : Administrative Law.
4. Sathe, S.P. : Administrative Law.
5. Thakkar, C.K. : Administrative Law.
6. Phillips, O.Hood. : Constitutional and Administrative Law.
7. Wade & Philips : Principles of Administrative Law.
8. Bhatia KL : Judicial Review & Judicial Activism.
9. Das, C.K. : Right to Information.
10. Acharya, N.K. : Commentary on The Right to Information Act, 2005.

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POST GRADUATE DIPLOMA IN MARKETING MANAGEMENT

MODE – THROUGH DISTANCE EDUCATION
DURATION- 1 YEAR
EXAMINATION SYSTEM- ANNUAL (May/June)

SCHEME & SYLLABUS

Paper No.	Nomenclature	Marks
PGDMM 101	Management Concepts	100
PGDMM 102	Marketing Management	100
PGDMM 103	Marketing Research	100
PGDMM 104	Consumer Behaviour	100
PGDMM 105	Industrial and Retail Marketing	100
PGDMM 106	Sales and Logistics Management	100
PGDMM 107	Training Report	100
PGDMM 108	Comprehensive Viva-Voce	100

Note: The students shall be required to undergo a four weeks practical field training during the course in a public/ private ltd. Company/ organization. The candidate shall be required to obtain approval from the course coordinator regarding the choice of the company/organization in which he/she seeks to undertake the training at least two months before the submission of training report to the Directorate of Distance Education, Kurukshetra University, Kurukshetra . A detailed training report incorporating the certificate issued by the company shall have to be prepared and submitted to the university by May 30. Training Report carrying 100 marks will be evaluated by External examiner.

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PGDMM-101: MANAGEMENT CONCEPTS

Max. Marks:100
Time: 3 hrs.

Note: The examiner shall set eight questions. The students shall be required to attempt five questions. Each question shall be of 20 marks.

Course Outlines:

Nature and Significance of Management. The evolution of management thought. The need for theories and techniques of Management. Approaches to Management, Functions of a manager, Management in future.

Planning: The nature and significance of planning, MBO Steps in planning The process and techniques of Decision-making, Long term planning, Strategies and Policies. Determinants of effective planning

Organizing : Nature and Significance of organizing. Approaches to organizing. Departmentation, Line and Staff relationship. Delegation and Decentralization. Committee System. Determinants of effective organizing

Staffing, nature and significance, selection, appraisal and development of managers.

Directing: Issues in managing human factor. Motivation nature and significance, Theories and Techniques. Leadership : nature and significance, approaches to effective leadership. Communication: definition and significance, the process and barriers, building effective communication system.

Controlling: Definition and elements. Control techniques Behavioural aspects of control. Coordination, determinants of effective Control system.

Suggested Readings:

1. Harold Koontz and W. Heinz, Management: A Global Perspective (10th ed.)
2. Newman & Summer, The Process of Management.
3. Drucker, The Practice of Management.
4. Kreitner R., Management (7th Ed.)
5. Robbins and Coulter, Management (5 ed).
6. Terry & Franklin, Principles of Management
7. Allen, Management & Organization.
8. Mc Farland, Management: Principles & Practices.

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PGDMM- 102: MARKETING MANAGEMENT

Max. Marks:100
Time: 3 hrs.

Note: The examiner shall set eight questions. The students shall be required to attempt five questions. Each question shall be of 20 marks

COURSE CONTENTS

Marketing: Meaning, Nature, Scope, Evolution and Importance. Modern concept of marketing. Ethics in marketing. Role of Information Technology in marketing. The dynamic marketing Environment. Marketing Mix and STP (Segmentation, Targeting and Positioning) Marketing Information System: Concept and Components of a marketing information system. Marketing Research: meaning, scope and techniques. Consumer Behaviour: meaning and importance, buying motives, buying process, factors influencing consumer behaviour. Product decisions: concept, classification, product-line decisions. New product development process, product life cycle, Packaging and Branding decisions. Pricing Concepts: objectives, policies and procedures, factors affecting pricing, pricing strategy and product life cycle, price changes and organizational strategies, product line pricing. Integrated Marketing Communication: Promotion-Mix; Advertising, sales promotion, public relations, personal selling and direct marketing. Channels of distributions: Concept, types and factors affecting channel selection. Recent developments in marketing.

Suggested Readings:

1. Michael J. Etzel, Bruce J. Walker, William J. Stanton, Ajay Pandit, Marketing Concepts and Cases, Tata McGraw-Hill Publishing Company Limited.
2.Michael R.Czinkota, Masaaki Kotabe, Marketing Management, Thomson, South Western.
3. Philip Kotler, Kevin lane Keller, Marketing Management, Pearson Prentice-Hall.
4. Dhru Grewal, Michael Levy, Marketing, Tata McGraw Hill Publishing Company Limited.
5. V.S. Ramaswamy, S. Nama Kumari, Marketing Management, Macmillan Publisher India Ltd.
6. Rajan Sexena, Marketing Management, Tata McGraw Hill Publishing Company Limited.

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PGDMM- 103: MARKETING RESEARCH

Max. Marks:100
Time: 3 hrs.

Note: The examiner shall set eight questions. The students shall be required to attempt five questions. Each question shall be of 20 marks

Course Outline

Introduction to Marketing Research- Definition, Classification, Process and Role in Marketing Decision Making.

Research Design- Meaning and types- Exploratory, Descriptive and Casual. Suitability of a research design in a particular situation.

Measurement and Scaling- A detailed discussion. A comprehensive study of data collection and sampling.

Data Analysis- An overview of techniques like Measures of Central Tendency, Dispersion, Correlation and regression, Testing of hypothesis and overview of multivariate data analysis techniques like Factor Analysis, Cluster Analysis and Conjoint Analysis. Role of SPSS in data analysis.

Scope of Marketing Research- A detailed analysis of Product Research, Advertising Research and Sales & Market Research.

Report Preparation and Presentation.

Suggested Readings:

1. Naresh K Malhotra and S. Dash, Marketing Research, Pearson Prentice-Hall.
2. Schindeler and Cooper, Marketing Research, Tata McGraw-Hill Publishing Company Limited
3. Boyd and Westfall, Marketing Research, AITBS.
4. Luck and Rubin, Marketing research, Prentice-Hall of India (PHI).
5. Green and Tull, Marketing Research, Prentice-Hall of India (PHI).
6. Nargundkar, Marketing Research, Tata McGraw-Hill Publishing Company Limited
7. Beri, G.C., Marketing Research. TMH Publications

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PGDMM-104: CONSUMER BEHAVIOUR

Max. Marks:100
Time: 3 hrs.

Note: The examiner shall set eight questions. The students shall be required to attempt five questions. Each question shall be of 20 marks.

.**Course outlines:**
Consumer Behaviour- Meaning, Nature, Scope and Significance of its study. Consumer Research: Role of Consumer Research, The Consumer Research Process.

Consumer Decision Making Process- A detailed study of various stages and their marketing implications.

Psychological Factors Influencing Consumer Behaviour- A detailed study of the concepts, theories and principles of Perception, Learning, Motivation, Personality, self concept and Attitude and their marketing implications.

Group influences on consumer behaviour- A detailed study of the influences of Family and Reference Groups and their marketing implications.

Impact of Culture, Sub-Culture and Social Class on the consumer behaviour.

Communicating with consumers. A study of the concepts of Opinion Leadership and Diffusion of Innovation along with their marketing implications.

Suggested Readings:

1. Fred, D. Reynolds, Willaim D. Wells,Consumer Behaviour
2. Schiffman, Kanuk, Consumer Behaviour
3. Rogerm D. Blackwell,James David T. Kollat, Cases in Consumer Engel F. and Behaviour
4. Stuart Henderson, Britt, Consumeer Behaviour in Theory and in Action
5. Ptrer, D. Beneet and Harold, H. Kassarijian, Consumer Behaviour
6. Rom, J Markin, The Psychology of Consumer Behaviour
7. Engle J.F. etc., Consumer behaviour, Chicago, Dryden Press, 1993
8. Howard, John A. etc., Consumer Behaviour in Marketing Englewood Cliffs, New Jersey, Prentice Hall Inc., 1989.

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PGDMM- 105: INDUSTRIAL AND RETAIL MARKETING

Max. Marks:100
Time: 3 hrs.

Note: The examiner shall set eight questions. The students shall be required to attempt five questions. Each question shall be of 20 marks

Course Outline

Industrial Marketing Concept: The philosophical and functional dimension. Difference between consumer and industrial marketing. Industrial consumer behaviour. Purchasing process for industrial goods. Value analysis. Vendor analysis. Formulating channel, pricing and promotional policies for industrial goods. Industrial marketing control.

Retail Marketing: Meaning, nature and significance for a developing country like India. Understanding retail economics. Setting of retail business: initial requirements, store location, community and area analysis, site evaluation and store planning. Retail organisation. Merchandise planning and control. A detailed study of pricing and promotion in retail trade.

Suggested Readings

1. Alexander, Cross and Hill, Industrial Marketing.
2. Raymond Corey, Industrial Marketing.
3. M.R Dodge, Industrial Marketing.
4. Davidson and Doody, Retail Management.
5. George, Lucas and Robert, Retailing.
6. Hasty, Ron, Reardon and James, Retail Management.
7. Havaldar, Industrial Marketing, TMH Publications
8. Pradhan, S, Retail Marketing, TMH Publications.

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PGDMM- 106: SALES AND LOGISTICS MANAGEMENT

Max. Marks:100
Time: 3 hrs.

Note: The examiner shall set eight questions. The students shall be required to attempt five questions. Each question shall be of 20 marks.

Course Outline

Sales Management- Meaning, Nature and Scope. The characteristics of good sales personnel. The selling process. Management of sales force- Recruitment, Selection, Training and Development, Motivation, Compensation etc. Sales Territories. Sales Quota. Controlling Sales Efforts.

Distribution Channels- Role, Functions, Flows and Levels. Channel Design- Meaning and detailed process. Distribution Network Planning. Channel Management Decisions. Channel Integration and Systems.

Logistics- Concept and Significance. Integrated Logistics Management. Market Logistics Planning. Market Logistics Decisions- Order Processing, Warehousing, Inventory and Transportation.

Concept of Supply Chain and its Strategic Role in the Organisation.

Role of IT in Logistics and Supply Chain.

Suggested Readings.

1. Dobler and Burt, Purchasing and Supply Management.
2. Lambert, Strategic Logistics Management.
3. Bowersox, Logistical Management.
4. Christopher, Logistics and Supply Chain Management.
5. Kotler, Marketing Management.
6. Still and Cundiff, Sales Management.

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PGDMM- 107: TRAINING REPORT

Max. Marks:100

Note: The students shall be required to undergo a four weeks practical field training during the course in a public/ private ltd. Company/ organization. The candidate shall be required to obtain approval from the course coordinator regarding the choice of the company/organization in which he/she seeks to undertake the training at least two months before the submission of training report to the Directorate of Distance Education, Kurukshetra University, Kurukshetra . A detailed training report incorporating the certificate issued by the company shall have to be prepared and submitted to the university by May 30. Training Report carrying 100 marks will be evaluated by External examiner.

PGDMM- 108: COMPREHENSIVE VIVA-VOCE

Max. Marks:100

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POST GRADUATE DIPLOMA IN PERSONNEL MANAGEMENT & LABOUR WELFARE

MODE – THROUGH DISTANCE EDUCATION
DURATION- 1 YEAR
EXAMINATION SYSTEM- ANNUAL (MAY/JUNE)
Scheme & Syllabus

Paper No.	Nomenclature	Marks
PGDPM&LW-101	Principles and Practice of Personnel Management	100
PGDPM&LW-102	Management Concepts (MC)	100
PGDPM&LW-103	Organisational Behaviour(OB)	100
PGDPM&LW-104	Industrial Psychology (IP)	100
PGDPM&LW-105	Management of Industrial Relations (MIR)	100
PGDPM&LW-106	Labour Welfare and Social Security(LW&SS)	100
PGDPM&LW-107	Training Report & Viva-Voce	50 + 50 = 100

Note:

- The students shall be required to undergo a four weeks practical field training in any public/private limited company before examination. A detailed report of the same incorporating the certificate issued by the company shall have to be prepared and be submitted to the university by April 30.
- Training Report Evaluation will be done by External Examiner
- A Comprehensive Viva-Voce from the subjects undergone during the programme will be conducted by External Examiner. However the students shall bring one copy of submitted training report on the date of viva-voce

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PGDPM&LW-101: Principles and Practice of Personnel Management

Marks:100
Time: 3 Hours

Note: The examiner shall set eight questions. The students shall be required to attempt five questions. Each question shall be of 20 marks.

Course Objective
The objective of the course is to acquaint the Students with concepts and techniques employed in personnel management

Course Outlines
Nature and scope of Personnel Function, functions of a personnel manager; planning and organizing of personnel functions, emerging challenges for personnel manager in modern business enterprise. Recruitment and Selection. Manpower Planning. Job design and analysis. Training and development: objectives approaches, determination of training needs, techniques and evaluation of training programme. Management development; Compensation: significant factors affecting compensation, essential requirements of a sound compensation plan, employee benefits and perquisites. Personnel control and change, establishing standards, measurement and evaluation of performance. Assessing deviations: control System: personnel manager as a change agent.

Suggested Readings

1. Saini. Debi, S. and Sami A. Khan (eds.) : Human Resource Management : Delhi, Response Books.
2. Cascio, W.F. : Managing Human Resources, New York, McGraw Hill, Inc.
3 Dwivedi R.S. : Managing Human Resources— Personal Management in Indian Enterprise, New Delhi, Galgotia Publishing Ltd.
4. Dwivedi, R.S. : Managing Human Resources —Industrial Relations in Indian Enterprises, New Delhi Galgotia Publishing Ltd.
5. Monappa, A : Managing Human Resource, Macmillan India Ltd.. Delhi.
6. Armstrong, M.A. : Handbook of Resource Management Practice, London Kogan Page.
7. Storey, J. (ed.) : New Perspectives in Human Resource Management, London, Routledge.
8. Bhasin M. L. : Human Resource Management— The Case Studies, New Delhi, Anmol Publications.
9. BeardwalJ, I & L Holden : Human Resource Management. L. Holden Delhi, Macmillan India Ltd.

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PGDPM&LW -102: MANAGEMENT CONCEPTS

Marks:100
Time: 3 Hours

Note: The examiner shall set eight questions. The students shall be required to attempt five questions. Each question shall be of 20 marks.

Course Objective:
The objective of the course is to acquaint the Students with concepts and techniques employed in management concepts.

Course Outlines:
Nature and Significance of Management. The evolution of management thought. The need for theories and techniques of Management. Approaches to Management, Functions of a manager, Management in future. Planning: The nature and significance of planning, MBO Steps in planning The process and techniques of Decision-making, Long term planning, Strategies and Policies. Determinants of effective planning . Organizing : Nature and Significance of organizing. Approaches to organizing. Departmentation, Line and Staff relationship. Delegation and Decentralization. Committee System. Determinants of effective organizing .Staffing, nature and significance, Selection, appraisal and development of managers. Directing: Issues in managing human factor. Motivation: nature and significance, Theories and Techniques of Motivation. Leadership: nature and significance, approaches to effective leadership. Communication: definition and significance, the process and barriers, building effective communication system.Controlling: Definition and elements. Control techniques, Behavioural aspects of control, Coordination, determinants of effective Control system.

Suggested Readings:

1. Harold Koontz and Heinz : Management: A Global Weihrich Perspective (10th ed.)
2. Newman & Summer : The Process of Management.
3. Drucker : The Practice of Management.
4. Kreitner R. : Management (7th Ed.)
5. Robbins and Coulter : Management (5 ed).
6. Terry & Franklin : Principles of Management
7. Allen : Management & Organization.
8. Mc Farland : Management: Principles & Practices.

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PGDPM&LW 103: Organizational Behaviour

Max. Marks: 100
Time: 3 Hours

Note: There will be eight questions in all. The candidate has to attempt any five.

Course Objective:
To Familiarize the students with the basic concepts, theories, and techniques in the fields of organizational design and group dynamics.

Course Outlines:
Organizational Behaviour : Nature, Historical background of Organizational Behaviour, research foundations. The Hawthorne Studies, Ahmedabad Experiment, theories x & Y. Work Motivation : Meaning and Theories of work motivation. perception : Person perception, self concept, impression management. Foundations of Group Behaviour : Definition and Types of groups; Dynamics of informal and formal groups. teams in work places. Leadership : Nature, Leadership styles in organization. Empowerment. Conflict : Nature and Types. Approaches to management of organizational conflict. Organization at Culture : Quality of work life. Organizational change and development : Definition and goals, approaches to organizational change. Techniques in organizational development; prerequisites to organizational development, Process of in organizational development, organizational development works in India.

Suggested Readings:

1. Davis, K. : Human Behaviour at Work, Organizational Behaviour, Tata McGraw Hill Publishing Co., New Delhi.
2. Luthans, F. : Organizational Behaviour, McGraw-Hill Book Company.
3. Robbins, S.P. : Organizational Behaviour, Prentice Hall of India, New Delhi.
4. Dwivedi, R.S. : Human Relations and Organizational Behaviour, Oxford & IBH Publishing Co., New Delhi.
5. Dwivedi, R.S. : Corporate Excellence: An External Search, McMillan India Ltd., 1998, New Delhi.
6. Schermerhorn : Managing Organizational Behaviour, et al. John Wiley & Sons, New Delhi.
7. Kreitner and Kinier : Organizational Behaviour, Tata McGraw Hill Publishing Co., New Delhi

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PGDPM&LW-104: Industrial Psychology

Max. Marks: 100
Time: 3 Hours

Note: There will be eight questions in all. The candidate has to attempt any five.

Course Objective:
To familiarize the students with the applications of psychological principles and techniques to industrial problems.

Course Outlines:
Introduction- Nature, Significance and Historical Development of Industrial Psychology. Role of psychologist in Industry; Growth and Development of industrial Psychology in India. Human Factors and industrial problems. Causes in behaviour, individual differences in behaviour. Selection, placement and Appraisal Job Analysis: Importance, Use and Procedures, Psychological Testing General Principles, Aptitude, Personality, Interests and Achievement Test. Measurement of Proficiency, Performance Appraisal. The Organizational and Social Context of Human Work-Hawthorne Studies. Morale and Group Processes. Job Satisfaction, Psychology of Attitudes, Supervisory and Executive Leadership. Job Evaluation and Incentive Systems, Basic Principles of Motivation and Work. The Work Situation and Accidents-Working Conditions, Human Engineering Training & Learning at work. The Training Processes, behaviour Modelling. Fatigue and Monotony, Accidents and Safety. Nature, dynamic, Accident Pronences and Safety Measures. Preventive Human Relations Counselling, Psychological Factors in Labour turnover and absenteeism; Positive discipline; management of grievances.

Suggested Readings:

1. Tiffin, J. and Maccormicf, E.S. : Industrial Psychology, Prentice Hall of India Pvt. Ltd, New Delhi.
2. Harrel, T.W. : Industrial Psychology, oxford and IBH Publishing Co.
3. Ghiselli, E.E. and Brwon C. : Personal and Industrial Psychology, McGraw Hill Book Company
4. Maier, N.R.F. : Psychology in Industry, oxford and IBH Publishing CO.
5. Blum, M.L. and Naylor, J.C. : Industrial Psychology, and its Social Foundations, Harper and Row
6. Sinha,D. : Studies in and Industrial Psychology, Sri Ram Mehra and Co.
7. Chatterjee, N.R. : Industrial Psychology, Sudha Publication.
8. Mohanty, G. : Text book of Industrial and Organisational Psychology, Oxford & IBPH Publishing Co.
9. Aronald J., Robuston : Work Psychology Understanding Human Behaviour in Work, Mac T.L. copper Millian India Ltd.

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PGDPM&LW-105: Management of Industrial Relations

Max. Marks: 100
Time: 3 Hours

Note: There will be eight questions in all. The candidate has to attempt any five.

Course Objective:
To help in understanding basic IR concepts and techniques for managing it effectively.

Course Outlines:
Nature of Industrial relations (IR)-Old and new versions Dunlop model and its relevance for India. Key issues and emerging trends in IR. Patterns of IR in India. The role of state in IR. Indian Labour Policy - Evolution and Perspectives, Impact of New Economic Policy on IR.The Role of Employers Organization in IR-the background and Role of Council of Indian Employers (CIE) in IR. Technological Change - Impact, implications and management. Trade Unionism-history, characteristics, role and dilemmas of trade unions in India, Measures to stregthen trade Unions and their recognition issue. Trade Unions Act, 1926. Role and relevance of trade Unions during post-liberalization period in India. Emerging trends and leadership in trade Unionism. Industrial unrest-forms, causes and trends. The Alwar experiment. The Industrial Disputes Act, 1947. Machinery for prevention and settlement of dispute Ethical approach to IR-Code of discipline and Gandhian trusteeship system. Positive discipline, Grievance Management. Collective bargaining-concept and process. Collective bargaining in India. Workers participation in Management: meaning, objective, pre-requisition and forms. The Indian schemes of workers participation. The Jamshedpur Experiment, Participation Through quality circles. Workers Education for effective participation

Suggested Readings:

1. Armstrong, M.A. : Handbook of Personnel Management Practice, London, Kogan Page Ltd.
2. Joseph, J. : Strategic Industrial Relations Management, Delhi, Global Business Press.
3. Sharma, G.S. : Trade Union Freedoms in India, Delhi, Deep & Deep Pub.
4. Mishra, S.N. : Labour and Industrial Laws, Allahabad, Central Law Publications 1997.
5. Monappa. A. : Industrial Relations, New Delhi, Tata McGraw Hill Pub.
6. Indian Labour Statistics (Latest), Shimla, Labour Bureau.
7. Indian Labour Year Bock (Latest), Shinda, Labour Bureau.
8. Indian Journal of Industrial Relations (Differem latest issues), New Delhi, Shri Ram Centre for Industrial Relations and Human Resources.

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PGDPM&LW 106: Labour Welfare and Social Security

Max. Marks: 100
Time: 3 Hours

Note:
There will be eight questions in all. The candidate has to attempt any five.

Course Objective:
The objective of this course is two fold viz., giving grounding to the students into the philosophy, and thereafter to help them understand the Labour Welfare and Social Security Measures as these have been developed in India.

Course Outlines:
Concept of Labour Welfare, Evolution and Growth of Labour Welfare, Welfare Work and Social Work; Aims of, and agencies for Welfare Work. The Factories Act 1948: Objectives, Major Provisions with special reference to Safety and Welfare Measures. Social Security - Meaning, Importance and Scope. Evolution and Growth of Social Security; Social Insurance and Social Assistance. Critical Study of Social Security legislation in India with special reference to the Objectives, Provisions and the Working of the Following: Workmen Compensation Act, 1923; Employees State Insurance Act, 1948 ; Maternity Benefit Act, 1961; Employees Provident Fund Act, 1952; Employees Family Pension Act, 1971.Labour Administration in India. International Labour Organization and Labour Welfare.

Suggested Readings:

1. Sarma A.M. : Labour Welfare and Social Security in India, Himalaya Publishing House, Bombay.
2. Moorthy, M.V. Gupta Bros., : Principles of Labour Welfare, Vishakhapatnam
3. Bhagoliwal, TN. Saxena, R.C. : Economics of Labour and Industrial Relations, Sahitya Bhawan, Agra.
4. Sexena, R.C. : Labour problems and Social Welfare, Kedar Nath Ram Nath, Megum Bridge, Meerut..

PGDPM&LW 107 TRAINING REPORT AND VIVA-VOCE

Max. Marks: 100
(50+50)

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BTM - SYLLABUS
5th Semester

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BTM-501 ENGLISH

External Marks: 90
Internal Marks: 10
Duration: 3 Hours

SYLLABUS OF ENGLISH TO BE COLLECTED FROM ENGLISH DEPARTMENT

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IMPACTSOF TOURISM (BTM – 502)

External Marks: 80
Internal Marks: 20
Duration of Time: Three Hours

Course objectives:

The development has its own impacts and so in case of tourism. The students shall be given exposure of the patterns of development in tourism mainly in reference to the developed and developing countries. The study of the positive as well as the negative impacts of tourism becomes essential to understand the benefits and lose of tourism development.

APPROACHES

Lectures, Group Discussion, Presentation,, Case studies.

MODE OF PAPER SETTING

There shall be ten questions to be set by the examiner selecting two questions from each unit. The candidate shall be required to attempt five questions selecting one question from each unit. All the questions shall carry equal marks. The questions shall be set in a manner that evaluates the theoretical and applied knowledge of the students.

UNIT – I

Patterns of tourism development in the developed and the developing countries – a comparative analysis in terms of volume of tourist arrivals and earnings from tourism

Tourism Development in the regions – Europe, Americas, Asia-Pacific region, Middle East and Africa in terms of volume of tourist arrivals and earnings from tourism

Characteristics of mass tourism

UNIT – II

Economic significance of tourism

Direct, Indirect and Induced Economic Impacts of tourism

Negative Economic Impacts of Tourism

Economic Impact Analysis

UNIT – III

Socio-cultural dimensions of tourism

Positive Social & cultural Impacts of Tourism

Negative Social &Cultural Impacts of Tourism

Social Change and growth of tourism

UNIT – IV

Environmental significance of tourism

Major Impact Areas – Natural Resources, Pollution and physical impacts

Tourism development in relation to global warming, Climate Change, natural resource exploitation& Biodiversity loss

Environmental Impact Assessment

UNIT – V

Sustainable Development of Tourism – the policy & planning issues

Sustainability in cultural tourism

Community empowerment through tourism

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REFERENCES

Bartelmus, P. (1994). *Environment, Growth and Development: TheConcepts and Strategies of Sustainability*. London, Routledge.

Burns, P. and Holden, A. (1995).*Tourism: A New Perspective*.London, Prentice Hall.

Butler, R. W. (1991). Tourism, environment and sustainabledevelopment.*Environmental Conservation*, **18**, 201–9.

Cater, E. (1994). Introduction. In *Ecotourism: A Sustainable Option*?(E. Cater and G. Lowman, eds). London, John Wiley and Sons.

Cooper, C., Fletcher, J., Gilbert, D. and Wanhill, S. (1998). *Tourism:Principles and Practice*. London, Longman.

Davison, R. (1996). The impacts of tourism. In *Tourism Destinations*(R. Davison and Maitland, eds), pp. 18–45. London, Hodder andStoughton

Peter Mason,2009, Tourism Impacts, Planning and Management, Butterworth Publication, NEW YORK

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Accounting for Tourism
BTM-503

External 80
Internal 20
Duration 3 Hours

Course Objectives

The Course equips the students with accounting techniques, methods and tools useful for preparation, understanding, analysis and interpretation of financial statements of any company in general and travel and Tourism Company in particular.

Teaching Practice

Class room teaching, assignment writing, case discussion, glossary of terms students should be familiar with the glossary pertaining to above mentioned topics.

Mode of Paper-Setting

The number of questions to be set will be ten in a manner that there are two questions from each unit. The students will be required to attempt five questions in all, selecting one question from each unit.

Internal Evaluation

The performance of the students will be evaluated on the basis of class participation, class test, regularity and assignment writing carries 20% of the credit.

Unit I

Introduction of Accounting: Nature, Definitions, uses, functions and types of accounting, Accounting principles conventions and concepts

Unit II

Double entry system of accounting, Cardinal rules of debit and credit, preparation of journals and other subsidiary books, preparation of ledger accounts and trial balance.

Unit III

Subsidiary Books- Advantage, Proformas of subsidiary books, purchases, sales, returns and special functions books used in hotel establishments

Unit IV

Cash Book- introduction, types and advantages, application of cash book. Petty Cash Book- need, uses, and applicability

Unit V

Final accounts: Need and application of trading, profit and loss accounts, and balance sheets in general and their application to travel businesses. Simple adjustments need to be covered.

References:

1. Financial Accounting by R L Gupta
2. Advanced Accounting Vol. 1 by R L Gupta
3. Advanced Accounts Vol.1 by T.S.Grewal & M.C. Shukla

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Alternate Tourism
BTM-504

External 80
Internal 20
Duration 3 Hours

Course Objectives

"Alternative Tourism" is not being mass tourism. Under the alternative tourism concept we can find a series of classifications and types of tourism. This course intends to provide knowledge about Alternate tourism to the students.

Teaching Practice

Class room teaching, assignment writing, case discussion, glossary of terms students should be familiar with the glossary pertaining to above mentioned topics.

Mode of Paper-Setting

The number of questions to be set will be ten in a manner that there are two questions from each unit. The students will be required to attempt five questions in all, selecting one question from each unit.

Internal Evaluation

The performance of the students will be evaluated on the basis of class participation, class test, regularity and assignment writing carries 30% of the credit.

Unit I

Alternative Tourism: Concept, definition, characteristics, scope and role in community development.

Unit II

Eco Tourism: meaning, definitions, characteristics, nature of Eco-activities, Eco-parks, Eco-wonders, Eco-Place, Eco-Trips with special reference to India.

Unit III

Adventure Tourism: meaning, definitions, characteristics, nature of and various type of adventure tourism such as biking, horseback riding, snowshoeing, ski mountaineering, rafting, diving, caving, climbing etc.

Unit IV

Thematic tourism – meaning, definitions, characteristics, nature of and various type of adventure tourism such heritage, justice and solidarity tourism, Sports Tourism, Health Tourism, Religious Tourism, Agro-tourism etc.

Unit V

Other Forms of alternate tourism: the esoteric, religion, wine, traditional cuisine, ethnography and traditional music and handicrafts-Discuss their meaning, nature, scope, advantages etc.

References:

1. http://wiki.answers.com/Q/What_is_alternative_tourism#ixzz1GZ7HUO9f
2. http://wiki.answers.com/Q/What_is_alternative_tourism#ixzz1GZ7y5lbx

3. *Statute of Bulgarian Association for Alternative Tourism, Art. 31*
4. Alternative Tourism Group
5. **Alternative Tourism** Group Palestine- www.atg.ps/
6. www.planeta.com/ecotravel/tour/definitions.html
7. **Alternative tourism** -wikipedia.org/wiki/Alternative_tourism
8. **Alternative Tourism** Group-www.patg.org/
9. www.ecoturismolatino.com/eng/ecotravellers/alternative/.../altertourism.htm
10. www.diegorayle.com/
11. www.alternative-tourism.org/

12. www.philsol.nl/pir/v2/AltTourism-PGX-00a.htm
13. www.bestgoadeals.com/Alternative-Tourism.html

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BTM-505 **TOURISM DOCUMENTATION**

External 80
Internal 20
Duration 3 Hours

Course Objectives

Tourism industry is growing at very fast pace. In India the outbound tourism and inbound tourism are also growing. International tourism involves several types of formalities. The students of tourism should know about such formalities, which are needed in the form of several documents. In this course the students will learn about required documents in foreign travels.

Teaching Practice

Class room teaching, assignment writing, case discussion, glossary of terms students should be familiar with the glossary pertaining to above mentioned topics.

Mode of Paper-Setting

The number of questions to be set will be ten in a manner that there are two questions from each unit. The students will be required to attempt five questions in all, selecting one question from each unit.

Internal Evaluation

The performance of the students will be evaluated on the basis of class participation, class test, regularity and assignment writing carries 20% of the credit.

Unit- I- General history of passport, visa and other formalities in different parts of world and India. Documents needed for foreign travels. Immigration formalities at airport for outbound and inbound tourists.

Unit- II- Passport; Definition. How to get the passport form. The essential documents , photographs and fee for passport. Types of passports. Alternatives of passport.

Unit-III- Visa- Meaning. Types of Visa issued by India. How to obtain Visa. Necessary documents to get Visa. Schengen Visa, U.S. Visa, U.K. Visa

Unit –IV- Health regulations; Yellow fever , Malaria, H.I.V. certificates,

Unit- V- Other formalities; Travel and baggage insurance, Disembarkation card, Baggage rules, Currency regulation. Foreign regional registration office.

References;

-Tourist information by Department of tourism , Government of India
-Visa formalities of different countries.(See websites of countries)

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BTM-506 Major Destinations of India

External 80
Internal 20
Duration 3 Hours

Course Objectives

India is one of the emerging economic powers of India. In tourism too India is one of few choicest destinations of the world. India has a great variety of natural and cultural tourist attractions, that's why it is said that India is for all reasons and all seasons. In this course few important and popular tourist destinations are mentioned , so that the students can know about main tourist attractions of given places.

Teaching Practice

Class room teaching, assignment writing, case discussion, glossary of terms students should be familiar with the glossary pertaining to above mentioned topics.

Mode of Paper-Setting

The number of questions to be set will be ten in a manner that there are two questions from each unit. The students will be required to attempt five questions in all, selecting one question from each unit.

Internal Evaluation

The performance of the students will be evaluated on the basis of class participation, class test, regularity and assignment writing carries 20% of the credit.

Unit-I- Religious and cultural destinations- Kedarnath, Puri, Dwarka, Rameshwaram

Unit- II- Historical and Architectural destinations- Delhi, Agra, Ajanta, Khajuraho

Unit III- Coastal destinations and Islands- Mumbai, Kolkata, Goa, Andaman and Nicobar

Unit- IV- Hill Stations- Shimla, Darjeeling, Ooty, Mussourie

Unit-V- Wild life Destinations- Jim Corbett, Gir, Manas, Sariska

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REFERENCES

Same as in Paper No. 104, 203 & 403

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BTM 602 **ENVIRONMENT AND TOURISM**

External 80
Internal 20
Duration 3 Hours

OBJECTIVES- Tourism and environment are closely inter related. Tourism cannot flourish in polluted environment. The global warming has threatened existence of several destinations. While planning tourism project the environment considerations and impact assessment are very important. The tourism students should know about recent environmental issues of India and world. This course deals several terms and definitions related with environment and ecology.

Unit- I- Definitions of environment, ecology, eco-tourism etc. Natural vegetation and wild life of India. Atmosphere, Ozone layer. Deforestation and extinction of flora and fauna.

Unit- II- Contemporary environmental problems; air, water, land, noise pollution, global warming, Green house effects, Controlling measures.

Unit- III- Impact of pollutions on tourism with examples from India and world.

Unit- IV- Eco tourism resources in India; existing tourism and potential tourism in those areas.

Unit- V-Eco tourism policy of Government of India and United Nations Environment Programme (UNEP), Application of eco-friendly steps by tourism and hotel industry.

References;

-Eco Tourism In India, Policy & Guidelines 1998, Ministry of tourism, Government of India

-Eco tourism; Principals, Practices & Policies, 2008, Megan Epler wood, UNEP(United Nations Environment Programme), New York.

Environmental problems, NCERT publications

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BTM-603 **HARYANA TOURISM**

External 80
Internal 20
Duration 3 Hours

Mode of paper setting:
There shall be ten questions in all – two from each unit. The candidate shall be required to attempt five questions selecting one question from each unit. The questions shall preferably be set to analyse the applied aspect of the subject. All questions shall be of 16 marks each.

Unit – I
Geographical and historical background of Haryana and their importance for tourism
Religious & cultural tourism potential in Haryana including dance, music, fair & festivals

UNIT – II
Socio-economic development in Haryana with special reference to agriculture, industries, education, health and service sector
Haryana's positionin agriculture, industries, education, health and service sector at national level

UNIT – III
Tourist Resources of Haryana:
- Monuments of touristic significance and museums
- Religious & pilgrimage centres of Haryana
- Music, dance, fairs & festivals in Haryana

UNIT – IV
Tourism Infrastructure in Haryana
- Transportation and accommodation sector in Haryana
- Recreational and entertainment facilities at the tourism complexes/resorts in Haryana
- Tourism organization in Haryana
- Haryana Tourism Policy - 2008

UNIT – V
Tourism Trends in Haryana
Major types of tourism in Haryana
Major tourist destinations of Haryana

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Information and Communication Technology
BTM-604

External 80
Internal 20
Duration 3 Hours

Course Objectives

The Course aims to provide knowledge regarding information and communication technology to the students of tourism. It covers methods and tools useful for any company in general and travel and Tourism Company in particular.

The Information Communication Technology studies focus on use common software applications, including interactive presentation software, e-mail, web browsers and website design. Students will develop a greater awareness of how applications are used in the workplace, and consider the impact of new technologies on methods of working and on social, economic, ethical and moral issues.

Teaching Practice

Class room teaching, assignment writing, case discussion, glossary of terms students should be familiar with the glossary pertaining to above mentioned topics.

Mode of Paper-Setting

The number of questions to be set will be ten in a manner that there are two questions from each unit. The students will be required to attempt five questions in all, selecting one question from each unit.

Internal Evaluation

The performance of the students will be evaluated on the basis of class participation, class test, regularity and assignment writing carries 20% of the credit.

Unit I

Applications and uses of ICT and impacts of ICT in relation to:

a. communication applications (such as newsletters, websites, multimedia presentations, cartoons, flyers and posters)
b. interactive communication applications (such as blogs, wikis and social networking websites)
c. data handling applications (such as surveys, address lists, clubs and society records)
d. measurement applications (such as scientific experiments, electronic timing and environmental monitoring)
e. control applications (such as turtle graphics, control of lights, buzzers and motors, automatic washing machines, automatic cookers, central heating controllers, burglar alarms, video recorders/players, microwave ovens and computer controlled greenhouse)

Unit II

Work-related ICT applications and their effects, including:

a. communication applications (such as the internet, email, fax, electronic conferencing, mobile telephones and internet telephony services)
b. applications for publicity and corporate image publications (such as business cards, letterheads, flyers and brochures)
c. applications for finance departments (such as billing systems, stock control and payroll)
d. school management systems (including registration, records and reports)
e. booking systems (such as those in the travel industry, the theatre and cinemas)
f. applications in banking (including Electronic Funds Transfer (EFT), ATMs for cash withdrawals and bill paying, credit/debit cards, cheque clearing, phone banking, internet banking)
g. applications in the retail industry (stock control, POS, EFTPOS, internet shopping, automatic reordering)

Unit III

How to use Internet in ITC?

a. Open web browsing application, display a given web page, close
b. Change view/display modes
c. Open a web page; use a hyperlink, an image link. Return to original page (navigation forward/backward; return to homepage, refresh)

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d. Browsing a specified site
e. Search engines – define requirements, use of keywords
f. Setting up for printing – preview, print web page, print a frame

Unit IV

Application and Uses of E-mail:

Cut - copy - paste to duplicate text within message/to another message, spell check, marking a message in mail folder, use of mail bin, reply to all, reply with/without original message, copy message to another address, printing .Address book – add address, delete, create new list, update from incoming mail, spam, risk of viruses, digital signatures, add attachments, delete attachment, open and save an attachment, sending low/high priority messages, inserting text from another source, forward a message, reply using distribution list, cc, bcc

Unit V

Computers and communication:

a. Revolution in Computers and communications.
b. The digital future: Role of IT in society, Distinguish between data and information.
c. Properties of Information and basic IT tools, e-learning, e-banking.
d. Social issues: Ethics and standards in computing, copyright, Intellectual property right, piracy, etc.

References:

V. Ragaraman, Fundamental of Computers, PHI, New Delhi
P K Shinha, Fundamentals of Computers

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BTM 605 Major destinations of the world

External 80
Internal 20
Duration 3 Hours

Objective- Tourism is one of the fastest growing industries. It is largest service industry in the world. For last few years the outbound tourists outnumbered the inbound tourists in India. Therefore the students of tourism should be aware about foreign destinations, not only for their knowledge, but also for their jobs. In this course few important destinations of different regions have been selected, which are popular tourist destinations.

Unit- I-Main destinations of Europe- London, Paris, Madrid, Athens

Unit –II-Main destinations of Asia- Hong Kong, Singapore, Dubai, Jerusalem

Unit III- Main destinations of Africa- Cairo, Nairobi, Mauritius, Cape Town

Unit IV- Main destinations of North America- New York, Miami, San Francisco, Montreal

Unit V- Other destinations- Buenos Aires, Sydney, Fiji, Wellington

REFERENCES

Same as in the paper No. BTM 104, 203, 403

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BTM-606 Salesmanship in Tourism

Maximum Marks: 100
Internal: 30
External (Theory): 70

Course Objective The main objective of this course is to acquaint students with the nature of Salesmanship and its application in tourism Industry.

PAPER SETTING: The examiner shall set ten questions selecting two questions from each unit. The student shall be required to attempt five questions in all selecting one question from each unit.

Teaching practices: Class Room lectures, Assignment. Cases, Discussions and Seminars

Unit- I

Sales Management: Concept, Objectives and Functions; Personal Selling: Concept & Importance, Classification of Sales Jobs; Buyer-Seller Dyads; Personal Selling process; Theories of selling. Sales Management challenges in tourism.

Unit – II

Sales Planning: Importance, Approaches and Process of Sales Planning; Sales Forecasting; Sales Budgeting, Sales Organization: Purpose, Principles and Process of setting up a Sales Organization; Sales Organization Structures; Organizing for Global Sales, Determining Size of Sales Force.

Unit- III

Managing the Sales Force: Recruitment, Selection, Training, Compensation, Motivating and Leading the Sales-Force; Sales Meetings and Contests.

Unit- IV

Territory and Quota Management: Need, Procedure for setting up Sales Territories; Time Management; Sales Quotas: Purpose, Types of Quotas, Administration of Sales Quota.

Unit -V

Control process: Analysis of Sales Volume, Cost and Profitability; Management of Sales Expenses, Evaluating Sale-Force Performance; Ethical Issues in Sales Management. Role of IT in Sales Management.

Suggested Readings:

1. Spiro, Stanton & Rich(2003), Management of a Sales Force11th edition., Tata McGraw-Hill :
2. Still, Cundiff & Govoni(2007), Sales Management, 5th edition ,Sage publications New Delhi.
3. Tapan k. Panda, Sunil Sahadev (2008), Sales and Distribution Management, Oxford University Press, New Delhi.
4. Tanner, Honeycutt, Erffmeyer (2009), Sales Management, Pearson Education India ,New Delhi.
5. S.A.Chunawala (2008), Sales and Distribution Management, Himalaya Publishing House, New Delhi.
6. Gupta, S. L.(2005), Sales and Distribution Management , Excel Books, 1st Edition, New Delhi.
7. David Jobber, Geoff Lancaster (2003), Selling and Sales Management, Pearson Education India, New Delhi.

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BHM&CT - SYLLABUS
5th Semester

INDUSTRIAL TRAINING FROM JUNE 01 – NOVEMBER 15
TRAINING REPORT & VIVA-VOCE: 400 MARKS

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BHM&CT - SYLLABUS
6th Semester

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BHMCT- 601 HRM IN Hotels

Maximum Marks: 100
Internal: 30
External (Theory): 70

Course objectives: The course is designed to introduce the learners to managing human resources in hotel industry. It enhances the competency of the students towards -Concepts, Approaches, Planning, Acquisition of Human Resources, Maintenance of Human Resources and Appraising & Rewarding Human Resources in hotel industry.

Paper setting: Paper setter should set 10 questions in a manner that there are 2 questions from each unit. The examinee should be required to attempt five questions, selecting only one from unit.

Teaching practices: Class Room lectures, Assignment. Cases, Discussions and Seminars

Unit-1 **Introduction of Human Resource:**

Human Resource- Concept, meaning and definition; Importance of HR in hotels; Concept of employee life cycle; approaches to managing HRs in hotels: emerging role of HR manager in hotel sector.

Unit-11 **Human Resources planning:**

Human Resource planning- meaning, process, factors and need for HRs planning;
Job analysis- meaning, types, proposes and uses; job description of major positions in a hotel.

Unit-111 **Acquisition of Human Resources**

Recruitment -meaning, process, methods of Recruitment in hotel industry; Selection procedure-essentials and steps in selection process; Interview- meaning, and types.
Employee promotion, transfer and separation- meaning, purpose, and types

Unit-1V **Maintenance of Human Resources:**

Employee Training- need for training, importance, and methods of training sin hotel industry.
Development of employee-concept, purposes and process; Components of employees' development; Techniques of employees' development.

Unit-V **Appraising and Rewarding Human Resources:**

Performance appraisal- need & importance and techniques.
Rewards and benefits for employees-compensation (wage and salary), incentives,

References:

1. Aswathappa, K,(2008) Human resource Management, The McGraw-hill publications, New Delhi.
2. Ian Beardwell and len Holden, (2000) Human Resource Management, Macmillan.
3. Robbins. (2000), the Management of Human resources, Prentic-hall,new Delhi.
4. Indian journal of industrial relations.
5. Employee Relation-International Journal (special issue on people management in India and sub-continents), 2007.
6. Subramanian,K.N. (2000)Wages in India, Tata McGraw –Hill Publication New Delhi.
7. C.b Mamoria (1999), Management of Human Resources, Himalaya publication, New Delhi.
8. Tripathi, P.C.(2006), Human Resources Management, Vikas Publications, Delhi.
9. Hoque, K. (2000b), *'Human Resource management in Hotel Industry: Strategy, Innovations and Performance'*, London: Routledge.
10. Woods, R.H. (1992). *Managing Hospitality Human Resources,* Michigan: Educational Institute of the American Hotel and Motel Association.
11. Boella, M.J (1992), *Human Resource Management in the Hospitality Industry,* 5th ed, Stanley Thornes Publishers, Avon.
12. Lee-Ross, D (1999), HRM in Tourism and Hospitality: International Perspectives on Small to Medium-sized Enterprises, Cassell Publications, London,

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BHM&CT 602 HOTEL FACILITY PLANNING

External Marks: 70
Internal Marks: 30
Duration: 3 Hours

OBJECTIVE:

The course will introduce learner to get a comprehensive knowledge and understanding of hotel facility planning which has a great importance in improving the functioning of hotel.

APPROACHES:

Lectures, Group Discussion, Presentations, Practical, Case studies, Business Games.

REQUIREMENTS:

Regular attendance and active participation during the course; Books and literature Surveys, Long essays and assignments; seminar presentations etc.

UNIT-1
Understanding Hotel Classification & Guidelines – Indian context
Introduction to hotels – types of hotels; Architectural features, facilities and Services in star, heritage & apartment hotels.

UNIT-II
Hotel design
Introduction, design considerations, Systematic Layout planning (SLP), Rules for Allocation of space in a hotel, formulation of project / feasibility report

UNIT-III
Kitchen & Restaurant Design
Basic Physical Layout of kitchen & restaurant, Designing & planning Kitchen, Restaurant & restaurant bar.

UNIT-IV
Specification for equipment, ventilation, kitchen safety & various storage facilities
Features of good kitchen, care and maintenance of kitchen equipment, kitchen equipment specifications.
Food store: definition & types, role of a storekeeper, beverage storage facilities

UNIT-V
Project management & Masterpieces of Facility planning
The network models (CPM / PERT), Drawing of a Network diagram, Project cost analysis
Few masterpieces of facility planning in Hotels & Restaurant.

REFERENCES:

- Hotel facility planning by Tarun Bansal, Oxford University Press.New Delhi
- Hotel Venture Management by Pandit S.N, Hotex Publishers, New Delhi
- Hotel Management Theory by B.K Chakaravati

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Paper- (BHM&CT-603)

External: 70
Internal: 30
Duration: 3 hours

COURSE OBJECTIVES:
The course familiarise students with interior designing and decoration, revenue management in hotels and other service industries. The course is blend of theory and practical to develop a professional attitude in students.

APPROACHES:
Lectures, Group discussion, Presentation, case studies, Practical,

REQUIREMENTS:
Regular attendance and active participation during the course; Books and literature Surveys, Long essays and assignments; seminar presentation, etc.

EVALUATION:
The performance of the students will be evaluated on the basis of class participation; house tests; regularity and assignments, carrying 30 percent of the credit and the rest through Terminal examination (3 hours duration)

MODE OF PAPER SETTING:
There will be ten questions in all and each question will carry 14 marks. Candidates will have to attempt any five questions selecting not more than two from each unit.

UNIT-I

Interior Designing
Objectives of interior design, basic types of design, elements of design, principles of design, units of design, designing for disabled.

UNIT-II

Interior decoration (Part-I)
Colour, Lightning, Floor coverings and finishes; types, characteristics and cleaning of floor coverings.

UNIT-III

Interior decoration (Part-II)
Carpets, importance of floor maintenance, ceilings and their maintenance, wall covering, windows and window treatments.

UNIT-IV

Standard content of a guest room
Guest room furniture, furniture arrangement, guestroom fixture and fittings, beds, mattresses and bedding, soft furnishing, guest room accessories, placement of guest supplies.

UNIT-V

Revenue Management
Concept and applications; Measuring yield; elements of revenue management; using revenue management, revenue management software.

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REFERENCE:

Front Office Training manual – Sudhir Andrews.
Managing Front Office Operations – Kasavana & Brooks
Front Office – operations and management – Ahmed Ismail
Managing Computers in Hospitality Industry – Michael Kasavana & Cahell.
Front Office Operations – Colin Dix & Chris Baird.
Hotel Front Office Training Manual- Suvradeep Gauranga Ghosh
Introduction to Hospitality-John R.Walker-Pearson
Managing Hotels And Restaurants-Dr Jagmohan Negi
Hotel Management-Educational and Environmental Aspects-Yogendra K.Sharm
Hotel, Hostel and Hospital Housekeeping – Joan C Branson & Margaret Lennox
Managing Housekeeping Operations – Margaret Kappa & Aleta Nitschke
Housekeeping Training Manual– Sudhir Andrews (Tata McGraw Hill).
Introduction to Hospitality-John R.Walker-Pearson

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ACCOMMODATION OPERATION (Practical)
Paper- (BHM&CT-603)
External: 30
Internal: 20

1) Team Cleaning of various types of floor finishes, wall coverings, windows, ceiling, carpet and hotel areas.
2) Yield management calculations. Preparing statistical data based on actual calculations
3) Role play & problem handling on different accommodation problems, role play of Front Office assistant, GRE, Lobby Manager, Bell Captain, Bell Boys, Concierge & Car Valet
4) Computer Proficiency in all hotel computer applications
5) In journal explain with proper illustration, picture the objectives of interior designing
6) Draw & collect pictures and illustration to depict how you would—achieve proportion in interior design, produce a rhythmic effect in designing, achieve balance in terms of interior design, create points of interest in interior design, achieve a harmonious atmosphere in interior design
7) With the use of paints on paper, illustrate prang's colour wheel & value scale
8) Plan a hotel suite on paper and chalk out a lighting plan for the same
9) Depict various modes of hanging window curtains and draperies with either paper or fabric
10) Visit a hotel and draw up a report on the contents (furniture their arrangement depicted in a sketch, soft furnishing used, accessories used in the rooms the types of fixtures and fittings in the guestrooms, the guest supplies and their placement) of the guestrooms. Compare and contrast the contents in a VIP suite and a twin room

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FOOD PRODUCTION

Paper- (BHM&CT-604)

External: 70
Internal: 30
Duration: 3 hours

COURSE OBJECTIVES:
This paper will give the knowledge of popular international cuisines, garde manger, cold cuts, buffet and advanced part of bakery preparations.

APPROACHES:
Lectures, Presentation, Practical,

REQUIREMENTS:
Regular attendance and active participation during the course; Books and literature Surveys, etc.

EVALUATION:
The performance of the students will be evaluated on the basis of class participation; house tests; regularity and assignments, carrying 30 percent of the credit and the rest through Terminal examination (3 hours duration)

MODE OF PAPER SETTING:
There will be ten questions in all and each question will carry 14 marks. Candidates will have to attempt any five questions selecting not more than two from each unit.

UNIT- I

Popular International cuisine:
Features, Regional classification, Ingredients, methods of cooking, courses of the menu, Mexican, Chinese, Thai, Italian, Spanish, Lebanese (Mediterranean), Menu examples

UNIT-II

Garde Manger:
Definition, Functions, Importance of Garde manger and Butchery, lay-out, Staff organization, Storage points, Special Purchase Standards of meat products, Yields test calculations and portioning.

UNIT-III

Buffet preparations:
Principles of Buffet, Presentation, Types, Themes, Buffet Setups, typical dishes, smorgasbord.

UNIT-IV

Cold cuts:
Farcis, terrines, pates, galantines, ballotines, mousses, quenelles, -types, preparation, menu examples. Cold sauces, dips, chaudfroid, aspics, methods of preparations, examples, chacutiere, sausages, types, preparation, popular sausages, Special Purchase Standards, cooking methods, casings, storage, problems.

UNIT-V

Advanced Bakery Preparation:
Introduction, types, recipes: Sugar craft, chocolate confectionery, cold puddings and sweets.

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References:

1. The Larder-Chef, MJ. Leto & WH.K. Bode, Butterworth Heinemann Larousse Gastronomique-Cookery Encyclopedia Paul Hamlyn
2. Professional Chefs-Art of Garde Manger (4th Edition) Frederic H. Semerschmid and John F. Nicolas Professional baking, Wayne Glasslen
3. Classical food preparation & presentation, WKH. Bode Classical Recipes of the World, Smith, Henry
4. Le Repertoire de la Cuisine, Louis Saulmier, Leon Jaggl & Sons Baking, Martha Day, Lorenz Books Professional Pastry Chef, Bo Friberg, John Wiley
5. The New Catering Repertoire, Vol. I, H.L.Cracknell & G. Nobis, Macmillan The Creative Art of Garnishes, Yvette Stachowiak, Bedford Editions

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FOOD PRODUCTION (Practical)
Paper- (BHM&CT-604)

External: 30
Internal: 20

1. Cold preparations, platters and buffets
2. International cooking, Recipes from, Italy, Spain, Mexico.
3. Exotic Indian & International starters & snacks, Hors d'oeuvres platter, mezze etc.
4. Advance Bakery-Rolls, breads, pastries, cookies, Mousses, Souffles, Parfait, Bavarois, Puddings, Gateaux etc.

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BHM&CT 605- FOOD & BEVERAGE SERVICE-V

THEORY

External Marks: 70
Internal Marks: 30
Duration: 3 Hours

OBJECTIVE:

The course will introduce learner to get a comprehensive knowledge and understanding of managerial functions of food & beverage service department of hotel and catering industry. It also aims to enable the student to acquire professional competence at managerial levels in the particular department.

APPROACHES:
Lectures, Group Discussion, Presentations, Practical, Case studies, Business Games.
REQUIREMENTS:
Regular attendance and active participation during the course; Books and literature Surveys, Long essays and assignments; seminar presentations etc.
UNIT-I
Food & beverage Marketing
Definition, Marketing environment, market research, market plans & marketing mix.
UNIT-II
Promoting food operations
Objectives, steps in the process, customer use of information, promotion with other travel partners, full destination promotions & benefits of promotions
UNIT-III
Promotional tools of food & beverage
Advertising, Internet, personal selling, sales promotions, merchandising, Public Relations & publicity
UNIT-IV
Food & Beverage Human resource
Introduction to hiring process, pre recruitment activity, sources of HR supply, recruitment & selection, basic interviewing skills, orientation & socialization- types, facilities, requirement & conduct.

UNIT-V
Training for Food & beverage
Organizational viewpoint, training requirement, methodology, various training aids & its process.
Leadership & motivation

REFERENCES:

- Food & Beverage Service - Dennis R.Lillicrap. & John .A. Cousins. Publisher: ELBS
- Food & Beverage Service Management- Brian Varghese
- Food & Beverage Service Training Manual - Sudhir Andrews, Tata McGraw Hill. Food & Beverage Service Lillicrap & Cousins, ELBS
- Introduction F& B Service- Brown, Heppner & Deegan
- Menu Planning- Jaksa Kivela, Hospitality Press
- Modern Restaurant Service – John Fuller, Hutchinson
- Professional Food & Beverage Service Management -Brian Varghese
- The Waiter Handbook By Grahm Brown, Publisher: Global Books & Subscription Services New Delhi
- Restaurant management by Mill, Publisher Pearson publication.

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BHM&CT 605- FOOD & BEVERAGE SERVICE-V

PRACTICAL

External Marks: 70
Internal Marks: 30
Duration: 3 Hours

- Prepare a Marking kit for your training restaurant
- Organize a theme party in your training restaurant & sell the concept to the selected cliental of you organization.
- Prepare a food promotion for your training restaurant
- Prepare an orientation kit for your department
- Develop an orientation program

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BHMCT: 606 Financial Management

Maximum Marks: 100
Internal: 30
External (Theory): 70

Course Objective: To familiarize the students with basics and important aspects of financial management.

Paper setting: Paper setter should set 10 questions in a manner that there are 2 questions from each unit. The examinee should be required to attempt five questions, selecting only one from unit.

Teaching practices: Class Room lectures, Assignment. Cases, Discussions and Seminars

Unit-I:

Nature, Scope, Functions and Objectives of Financial Management, Organization of Finance Function. Financial Planning: Meaning, Process.

Unit-II :

Working Capital Management: Concept, Nature, Significance, Components

Unit-I1I:

Capital Budgeting: Concept, Importance, Capital Budgeting-Conventional & Discounting Methods.

Unit-IV:

Dividend Decisions: Nature, Concept, Significance, Dividend policies.

Unit-V:

Sources of Finance: Short term, Medium term & Long term for hotel ventures

Suggested Readings:

1. Pandey, I. M.(2009). : Financial Management , Vikas Publication, New Delhi.
2. Khan, M. Y. (2009), Financial Management, Tata Mc Graw Hill, New Delhi.
3. Chandra Prasanna(2008), Financial Management,Vikas Publication , New Delhi.
4. James C.Van Horne (2003), Financial Management and Policy, Prentice Hall of India, New Delhi..
5. John Hampton(1997), Financial Decision–Making, Englewood Cliffs, New Jersey, Prentice Hall Inc.

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BHM&CT 607- ELEMENTARY FRENCH
THEORY

External Marks: 70
Internal Marks: 30
Duration: 3 Hours

OBJECTIVE:
To enable the students to understand, read, write and speak basic French.
APPROACHES:
Lectures, Group Discussion, Presentations, Role play
REQUIREMENTS:
Regular attendance and active participation during the course; Books and literature Surveys, Long essays and assignments; seminar presentations etc.

UNIT-1
Chapters 1, 2 & 3
L'alphabet francais, Les signes orthographiques et ponctuations.
Grammaire: Les Articles, les questions et les noms.

UNIT-II
Chapters 4, 5 & 6
Grammaire: les couleurs des adjectifs, les verbes – Être et Avoir, les nombres (1-100)

UNIT-III
Chapters 7, 8 & 9
Grammaire: les trios form du verbes conjugations: affirmative, negative et interrogative, adjectiif possessif.

UNIT-IV
Chapters 10, 11 & 12
Grammaire: I-er groupe – "ER", nombre ordinaux, articles contractes, prepositions (de et à), les jours de la semaine, les mois de l'annee.

UNIT-V
Chapters 13, 14 & 15
Grammaire: IInd groupe – "IR", adjective demonstratifs.

PRESCRIBED COURSE BOOK:
- G Mauger, La Langue et La civilization Francaises- I, Hachette, Paris.

REFERENCES:
- Apprends les Francais – Publisher Saraswati House New Delhi.
- English French Dictionary – Orient Longman.

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BHM&CT - SYLLABUS
7th Semester

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Research Methodology
BHMCT- ---701----------

Marks: Internal Marks: 30
External Marks: 70
Time: 3 Hours

Objective:

To impart basic knowledge about research and research methods to the students of hotel management

Method of Teaching:

Through lectures, presentations, slid shows, charts, diagrams, learning exercises etc.

Instruction for paper setter:

Paper is to be set in a way that provides adequate choice to the students. In all set ten questions, spread over equally on entire syllabus. Ask the students to attempt at least from each unit.

Unit I

Research: Introduction, definition, need, aims, importance, scope, classifications, types, characteristics, and research process.

Unit II

Research Design: meaning, need, types, factors affecting, basic purpose, and principles

Unit III

Data Collection: Meaning, need, main terminologies used in data collection-population, sample, parameter, variables, etc., types of data, methods, sources of various types of data, methods of data collection: Observation Method, Interview Method, Data collection through questionnaires, Collection of data through schedules, case study,

Unit IV

Data Analysis: Meaning, need, classification, tabulation, array, range, frequency distribution, Presentation of data-graphic, histogram, Polygon, Ogive, Measurement of Central Tendency- Mean, Mode, Median, Dispersion/ Skewness, Correlation and regression analysis of two variables only- Define ,Characteristics ,Types, values of , formulae for calculation etc.

Unit V

Interpretation: Meaning, definition, significance, techniques.
Report Writing: Meaning, significance, steps, types, findings, suggestions, conclusion

References:

1. C R Kothari: Research Methodology
2. S P Gupta: Statistical Methods
3. Internet sites through google.com

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HOTEL MARKETING (BHM&CT – 702)

External Marks : 70
Internal Marks:30
Time Duration: Three Hours

COURSE OBJECTIVES:

The course aims to help the students to develop a perspective about the concept of marketing and its implications in varied forms in the hotel industry. The contents of the course shall focus on gaining the knowledge about the business trends in the hotel industry and the understanding of the role of marketing in it.

APPROACHES

Lectures, Group Discussion, Presentation,, Case studies.

MODE OF PAPER SETTING

There shall be ten questions to be set by the examiner selecting two questions from each unit. The candidate shall be required to attempt five questions selecting one question from each unit. All the questions shall carry same marks. The questions shall be set in a manner that evaluates the theoretical and applied knowledge of the students.

UNIT – 1

Understanding the concepts of market and marketing
Core concepts in marketing – Need, Wants, Demand, Exchange
Concept of service marketing
Product marketing versus service marketing

UNIT – II

Marketing environment and its analysis
Business trends and practices in Hotel industry and the role of marketing
Service characteristics of hotel marketing

UNIT – III

Concept of Marketing Mix – 7 P's Framework in hotel industry – Product, Place, Price, Promotion,, People, Process and Physical EvidenceMarket segmentation – Basis of Market segmentation; Market targeting and market positioning
Marketing Information Systems and Marketing research

UNIT – IV

Product – related strategies – New Product development, Product Life Cycle, Branding, Product Mix strategies
Pricing Products: Factors for setting prices; Price approaches; Pricing strategies
Process strategies: modes of delivery of hotel services; Balancing demand and supply

UNIT – V

Physical evidence: Importance of ambience and experience in hotels; Components of physical evidence, Creating right physical eveidence
Promoting products: Advertising, Direct Marketing and Sales promotion
Public Relations

REFERENCES

Chaudhary, Manjula. Tourism Marketing(2010), Oxford University Press, Delhi
Kotler, Philip, John Bowen & James Makens (2003). Marketing for Hospitality and Tourism, Pearson Education, Delhi
Ninemeier, Jack D. Discovering Hospitality and Tourism: The World's Greatest Industry (2009), Pearson Education, Delhi

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ACCOMMODATION OPERATION
Paper- (BHM&CT-703)

External: 70
Internal: 30
Duration: 3 hours

COURSE OBJECTIVES:
The course familiarise students with the concept of budgeting, ecotels, changing trends and managerial roles in the hotel industry.

APPROACHES:
Lectures, Group discussion, Presentation, case studies, Practical,

REQUIREMENTS:
Regular attendance and active participation during the course; Books and literature Surveys, Long essays and assignments; seminar presentation, etc.

EVALUATION:
The performance of the students will be evaluated on the basis of class participation; house tests; regularity and assignments, carrying 30 percent of the credit and the rest through Terminal examination (3 hours duration)

MODE OF PAPER SETTING:
There will be ten questions in all and each question will carry 14 marks. Candidates will have to attempt any five questions selecting not more than two from each unit.

UNIT-I

Budgeting for Housekeeping Expenses
Types of budgets, housekeeping expenses, budget planning process, income statements of room division, controlling expense, inventory control and stocktaking, purchasing.

UNIT-II

Managing Housekeeping Personnel
Documents of personnel management, determining staff strength, recruiting, selecting, hiring, orientation and training. Scheduling, motivating employees. Performance appraisal, team work and leadership, employee welfare and discipline.

UNIT-III

Ecotels
Ecotel certification, choosing an eco friendly site, hotel design and construction, energy conservation, water conservation, waste management, environment friendly housekeeping.

UNIT-IV

Changing trends in housekeeping
Hygiene and cleanliness, outsourcing, training and motivation, eco-friendly amenities, products and processes. New scientific techniques, IT savvy housekeeping.

UNIT-V

Front office and the Law
Overview of legal obligations, duties and standards of care, front office contracts.
Legal concerns: guest safety, guest privacy, guest removal, guest property, guest non-payment, illness and death in guestrooms.

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REFERENCE:

1. Front Office Training manual – Sudhir Andrews.
2. Managing Front Office Operations – Kasavana & Brooks
3. Front Office – operations and management – Ahmed Ismail
4. Managing Computers in Hospitality Industry – Michael Kasavana & Cahell.
5. Front Office Operations – Colin Dix & Chris Baird.
6. Hotel Front Office Training Manual- Suvradeep Gauranga Ghosh
7. Introduction to Hospitality-John R.Walker-Pearson
8. Managing Hotels And Restaurants-Dr Jagmohan Negi
9. Hotel Management-Educational and Environmental Aspects-Yogendra K.Sharm
10. Hotel, Hostel and Hospital Housekeeping – Joan C Branson & Margaret Lennox
11. Managing Housekeeping Operations – Margaret Kappa & Aleta Nitschke
12. Housekeeping Training Manual– Sudhir Andrews (Tata McGraw Hill).
13. Introduction to Hospitality-John R.Walker-Pearson

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ACCOMMODATION OPERATION (Practical)
Paper- (BHM&CT-703)

External: 30
Internal: 20

1) Team Cleaning for various area of hotel.
2) Draw out staffing guide for a 300 room hotel
3) Chalk out an orientation programme for a GRA in a 5 star deluxe property.
4) Chalk out a training programme of a week's duration for a GRA in a 5 star deluxe property.
5) Make a duty roster for 24 GRA's employed in 5 star hotel
6) Design a format for performance appraisal using the method discussed in theory.
7) Visit an ecotel and study the eco- friendly practices followed by them. And write them in the journal.
8) Collect information on the latest innovations and trends in housekeeping and front office from various hospitality magazines and websites. And chalk them in your journal.
9) Study legal obligations, duties and standards of care for front office.
10) Role play & problem handling on different accommodation problems.

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FOOD PRODUCTION-II
Paper- (BHM&CT-704)

External: 70
Internal: 30
Duration: 3 hours

COURSE OBJECTIVES:
This paper will give the knowledge of food styling, banqueting preparation, cooking systems.

APPROACHES:
Lectures, Presentation, Practical,

REQUIREMENTS:
Regular attendance and active participation during the course; Books and literature Surveys, etc.

EVALUATION:
The performance of the students will be evaluated on the basis of class participation; house tests; regularity and assignments, carrying 30 percent of the credit and the rest through Terminal examination (3 hours duration)

MODE OF PAPER SETTING:
There will be ten questions in all and each question will carry 14 marks. Candidates will have to attempt any five questions selecting not more than two from each unit.

UNIT- I

Food Styling:
General principles, modern and special innovative garnishes, accompaniments, decorations and concept development.

UNIT-II

Banqueting Preparations:
Types of banquets, themes, production, menu preparation, Low calorie food, advantages, disadvantages, menu examples, preparation. Out -door Catering: Concept, principles, limitations, menus, planning, check list and precautions.

UNIT-III

Cook chill systems:
Purpose of chilling food, cook chill process, finishing kitchens, distribution of cook chill and ways to preserve food.

UNIT-IV

Cook freeze system:
Preparation of food for freezing, storage of frozen food, transport of frozen food, reheating of frozen or cooked food. Advantages of cook freeze over cook chill.

UNIT-V

Miscellaneous:
Power breakfasts, brunches and lunches, High teas, cocktail snacks, theme menus, food festivals, other new or non-conventional catering concepts, Airline and Cruise liner meal planning.

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References:

1. Accompaniments & Garnishes from waiter; Communicate: Fuller J. Barrie & Jenkins
2. Bakery & Confectionery By S. C Dubey, Publisher: Socity of Indian Bakers
3. Cooking Essentials for the New Professional Chef
4. Larder Chef By M J Leto & W K H Bode Publisher: Butterworth- Heinemann
5. Modern Cookery (Vol-I) By Philip E. Thangam, Publisher: Orient Longman
6. Practical Cookery By Kinton & Cessarani
7. Practical Professional Cookery By Kauffman & Cracknell
8. Professional Cooking By Wayne Gisslen, Publisher Le Cordon Bleu
9. Purchasing Selection and Procurement for the Hospitality Industry By Andrew Hale Feinstein and John M. Stefanelli
10. The Professional Chef (4th Edition) By Le Rol A.Polsom
11. The Professional Pastry Chef, Fourth Edition By Bo Friberg Publisher: Wiley & Sons INC
12. Theory of Catering By Kinton & Cessarani
13. Theory of Cookery By K Arora, Publisher: Frank Brothers

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FOOD PRODUCTION (Practical)
Paper- (BHM&CT-704)

External: 30
Internal: 20

1. International cookery: Recipes from China, Sri Lanka, Thailand, Lebanon (Mediterranean) and other countries,

2. Bakery and confectionery-chocolate preparation, fancy cakes, savory items, quiches, tarts etc.

3. Exposure to out-door catering(ODC) if possible

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BHM&CT 705- FOOD & BEVERAGE SERVICE-VI
THEORY

External Marks: 70
Internal Marks: 30
Duration: 3 Hours

OBJECTIVE:

The course will introduce learner to get a comprehensive knowledge and understanding of food & beverage management of service department of hotel. It also aims to enable the student to acquire professional competence at managerial levels in the particular department.

APPROACHES:

Lectures, Group Discussion, Presentations, Practical, Case studies, Business Games.

REQUIREMENTS:

Regular attendance and active participation during the course; Books and literature Surveys, Long essays and assignments; seminar presentations etc.

UNIT-I

Food & Beverage Management

Introduction, Objectives of F&B Management, Responsibilities of F&B Management, Constraints toF&B Management. Managing quality in food & beverage operations at Catering Establishments.

UNIT-II

Food & beverage control

Planning & budgeting – types of budgets, types of control, food cost & calculation of daily beverage costs.

UNIT III

Food & Beverage- Strategic Management

Factors and strategies considered and used, stabilizing food costs, production scheduling, decision making, sales volume, mix analysis, and profit margins, expanding, diversifying & franchising.

UNIT-IV

Production and service operations

Types of food service systems, Quality management, Performance improvement program, Total Quality Management(TQM), standard recipe, standard specification, yield analysis, recipe costing, Forecasting, Branding, Marketing, Menu planning & analysis, factors to be considered while planning a menu, storage.

UNIT-V

Introduction to HACCP & Eco-friendly Practices in F&B Service operations

Understanding the concept of HACCP, Its process, seven principles of HACCP;Introduction to different types of wastes- solid, liquid & gases, various methods of reducing them.

REFERENCES:

- Food & Beverage Service - Dennis R.Lillicrap. & John .A. Cousins. Publisher: ELBS
- Food & Beverage Service Management- Brian Varghese
- Food & Beverage Service Training Manual - Sudhir Andrews, Tata McGraw Hill. Food & Beverage Service Lillicrap & Cousins, ELBS
- Introduction F& B Service- Brown, Heppner & Deegan
- Menu Planning- Jaksa Kivela, Hospitality Press
- Modern Restaurant Service – John Fuller, Hutchinson
- Professional Food & Beverage Service Management -Brian Varghese
- The Waiter Handbook By Grahm Brown, Publisher: Global Books & Subscription Services New Delhi
- Restaurant management by Mill, Publisher Pearson publication.
- Paul R. Dittmer Principles of Food, Beverage, and labour Cost Control

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BHM&CT 705- FOOD & BEVERAGE SERVICE-VI
PRACTICAL

External Marks: 70
Internal Marks: 30
Duration: 3 Hours

- Prepare a F & B control system for your training restaurant
- Revision of various equipment used in restaurant
- revision of Menu planning & different form of services

Forms & Formats Used -Register & files Maintained for F& B control

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BHMCT-706 **Hotel Economics**

Maximum Marks: 100
Internal: 30
External (Theory): 70

Objectives: Hotel is now recognized as an economic activity of global significance. This complex and multi-faceted industry plays an important role in the economics of many developed and less developed countries. The main aim of this course is to give the macroeconomic picture of hotel's role within national economies using the fundamental concepts learned in introductory economics course**.**

Paper setting: Paper setter should set 10 questions in a manner that there are 2 questions from each unit. The examinee should be required to attempt five questions, selecting only one from unit.

Teaching practices: Class Room lectures, Assignment. Cases, Discussions and Seminars

Unit-I **Introduction to Hotel Economics:**
Circular flow of Economic Activities; Hotel development and national economy- contribution to GDP, influencing procedure, Hotel business under five year plans, Globalisation and its impacts on hotel business.

Unit-II **Economics of Hotel Demand:**
Nature of demand, Factor influencing hotel demand, economic determinants of Hotel demand, price and income elasticity of hotel demand, trends in hotel demand.

Unit-III **Economics of Hotel supply**:
Market Structure and Hotel supply, elasticity of supply, Integration in hotel supply, supply trends

Unit-IV **Economic impacts of hotel business:**
Employment and income creation, hotel Multiplier, Balance of payment, Foreign exchange.

Unit-V **Hotel Costs:**
Cost concept, types of costs, determinants of cost hotel, taxation and cost.

References:

1. Vanhove, N. (2005), The Economics of Tourism Destinations, Oxford: Elsevier Butter worth- Heinemann.
2. Bull. A. (1995), The Economics of Travel and Tourism, Australia: Longman.
3. Ahuja. H.L.,(2006) Business Economics, S. Chand & Co. New Delhi.
4. T.R.Jain,(2008) Business Economics, V.K. Publication, New Delhi.
5. Nellis and Parker,(2005), The essence of Business Economics, Prentice Hall, New Delhi.
6. A.S.Sheela (2007) , Economies of Hotel Management , New age Publication, New Delhi.

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BHM&CT 707 ADVANCE FRENCH
THEORY

External Marks: 70
Internal Marks: 30
Duration: 3 Hours

OBJECTIVE:
To enable the students to understand, read, write and speak basic French.

APPROACHES:

Lectures, Group Discussion, Presentations, Role play

REQUIREMENTS:

Regular attendance and active participation during the course; Books and literature Surveys, Long essays and assignments; seminar presentations etc.

UNIT-1
Quick revision of Chapters 1to 14
Grammaire: from all previous chapters

UNIT-II
Chapters 15, 16 & 17
Grammaire: Passé composé avec le verbe "Avior" (tous les trios forms)

UNIT-III
Chapters 18, 19 & 20
Grammaire: Passeé composé avec le verbe "Être" (tous les trios forms)
Articles partitifs, futur tense

UNIT-IV
Chapters: 21, 22 & 23
Grammaire: futur tense, futur proche et passé recent

UNIT-V
Chapter 24
Grammaire: Pronominal verbes
Revision
Vocubulaire du hoteliere

PRESCRIBED COURSE BOOK:

- G Mauger, La Langue et La civilization Francaises- I, Hachette, Paris.

REFERENCES:
- Apprends les Francais – Publisher Saraswati House New Delhi.
- La Langue et La civilization Francaises – G Mauger
- English French Dictionary – Orient Longman.

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BHM&CT - SYLLABUS
8th Semester

INDUSTRIAL TRAINING FROM JANUARY 01 – MAY 31
TRAINING REPORT & VIVA-VOCE: 400 MARKS

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B.A in Tourism &Travel Management (Vocational)

Paper No. V

GEOGRAPHY OF TOURISM

External Marks-90
Internal-10

Duration-3 hours

Objectives:

Geography of Tourism studies the phenomena of tourism over the global space with ,spatial, attention on the place of origin, place of destination & routes though which the travel & tourism takes place . It provides a thorough Knowledge about the characteristics of tourist markets ,attractions of destinations & the accessibility of the world with a focus on a few selected countries of world.

Mode of Paper Setting:

The examiner shall set ten questions selecting two questions from each unit. The students shall be required to attempt five questions in all selecting one question from each unit.

Unit-I Brief introduction of & oceans. Map reading. Greenwich mean time. International date line. Elements of weather & climate. Climatic zones of the world. Natural vegetation of the world. Main tourist activities in different climatic zones.

Unit-II Asia: General geographical features; physiography, climate, vegetation, main countries, capitals & their tourist attractions. A Case study of Singapore, Shri Lanka

Unit-III Europe: General geographical features; physiography, climate, vegetation, main countries ,capitals & their tourist attractions. A Case study of France, Switzerland

Unit-IV Americans: General geographical features; of North & South Americans; physiography ,climate, vegetation , main countries, capitals & their tourist attraction. A Case study of the U.S.A. (only 5 destinations), Brazil

Unit-V Other countries, General geographical features of given countries with information about physiography, climate vegetation & tourist attractions: South Africa, Australia

Lonely planet series books on related countries.

Website of related countries.

ATLAS of world.

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B.A in Tourism & Travel Management (Vocational)

Paper No. VI

Major Destination of India

External Marks: - 60
Internal: - 10
Field Trip Report- 30

Objectives – In Paper III, IV and V students have read about several places of India and World. In this paper they will learn about some famous destinations of India with special focus - to itinerary preparation. In Tourism Industry the destination are used as a part of same four program , so they should learn the destination. With reference to their attraction , access, types of Tourism etc.

Unit-I- Historical/ Monument/ Architectural destination:-
Ajanta-Ellora , Mahabalipuram , Hampi

Unit-II- Religious / Cultural Centres :-
Haridwar , Puri-Bhubaneshwar-Konark , Rameshwaram

Unit-III- Hill station ;- Mahabaleshwar , Kodaicanal , Shillong

Unit-IV- National Parks/Wild life sanctuaries:
Jim Corbett, Gir , Manes

Unit-V- Coostal Destination –Goa ,Diu , Pondicherry

References – same as paper III, IV & V

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B.A in Tourism &Travel Management (Vocational)

Paper No. VII

TRANSPORT MANAGEMENT

External marks:- 90
Internal:- 10
Duration:- 3 hours

Objective: Transport is most important element of travel & tourism business. One can not think of tourism industry without any mode of transportation. There are several modes of transportation which are relevant in different conditions. The course focuses on different modes of transport and their role in tourism

Mode of paper setting:

The number of questions to be set will be ten in a manner that there are two questions from each unit. The students shall be required to attempt five questions in all, selecting one question from each unit .

Teaching Practices: Class room lectures, Assignments, Cases, Discussions and Seminars.

Course Contents

Unit-I

Transportation as important part of tourism industry. History of different modes of transportation. The physiograpy & socio-economic factors affecting development of different modes of transportation .

Unit-II

Airlines & Tourism , History of Airlines in India , AAI: Organizational structures and functions. Air India and Private Airlines Role in tourism promotion.

Unit-III

Surface transport & tourism Importance of surface transportation, Coaches, Car rental system in India: Road system in India. National and State Highways. Role of surface transport in tourism.

Unit-IV

Railway & tourism History & present status of Indian railway, Special train for tourists. Different packages & facilities given by railway. Problems of Indian Railway. Role of Railway in tourism

Unit-V

Water transport –History & present status of water transport. Limitation & scope of water transport of India. Cruise ships. The role of water transport in tourism.

Reference

Aggarwal Surinder : ,Travel Agency Management, Communication India , New Delhi Hannel Christine, Robert Harsnman & Grahan Draper-Travel & Tourism: A world Regional geography, John Wiley & Sons, New York
Hurst, Elist ,Transportation Geography, Mc Graw Hill, New York
Mohinder Chand , Travel Agency Management –An Introductory Text. Anmol Publication , New Delhi. 2006
OAG, Airlines time table
OAG, Cruise lines tie table
Indian Railway time table
Other references as in BTM-III &V

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B.A. in Tourism & Travel Management (Vocational)

Paper No. VIII

External Marks: 90
Internal Marks: 10
Duration of Time: Three Hours

Course objectives:

The development has its own impacts and so in case of tourism. The students shall be given exposure of the patterns of development in tourism mainly in reference to the developed and developing countries. The study of the positive as well as the negative impacts of tourism becomes essential to understand the benefits and lose of tourism development.

APPROACHES

Lectures, Group Discussion, Presentation,, Case studies.

MODE OF PAPER SETTING

There shall be ten questions to be set by the examiner selecting two questions from each unit. The candidate shall be required to attempt five questions selecting one question from each unit. All the questions shall carry equal marks. The questions shall be set in a manner that evaluates the theoretical and applied knowledge of the students.

UNIT – I

Growth & Development of International Tourism over the years: A General View
Growth & Development of International Tourism in different regions(in terms of tourist arrivals & tourism receipts): Europe & Americas; Asia-Pacific Region; Middle-East and Africa
Characteristics of mass tourism

UNIT – II

Economic significance of tourism
Direct, Indirect and Induced Economic Impacts of tourism
Negative Economic Impacts of Tourism

UNIT – III

Socio-cultural dimensions of tourism
Positive Social & cultural Impacts of Tourism
Negative Social & Cultural Impacts of Tourism
Social Change and growth of tourism

UNIT – IV

Environmental significance of tourism
Major Impact Areas – Natural Resources, Pollution and physical impacts
Tourism development in relation to global warming, Climate Change, natural resource exploitation & Biodiversity loss

UNIT – V

Sustainable Development of Tourism – the policy & planning issues
Sustainability in cultural tourism
Community empowerment through tourism

REFERENCES

Bartelmus, P. (1994). *Environment, Growth and Development: The Concepts and Strategies of Sustainability*. London, Routledge.
Burns, P. and Holden, A. (1995).*Tourism: A New Perspective*. London, Prentice Hall.
Butler, R. W. (1991). Tourism, environment and sustainable development.*Environmental Conservation*, **18**, 201–9.
Cater, E. (1994). Introduction. In *Ecotourism: A Sustainable Option*? (E. Cater and G. Lowman, eds). London, John Wiley and Sons.
Cooper, C., Fletcher, J., Gilbert, D. and Wanhill, S. (1998). *Tourism: Principles and Practice*. London, Longman.
Davison, R. (1996). The impacts of tourism. In *Tourism Destinations* (R. Davison and Maitland, eds), pp. 18–45. London, Hodder and Stoughton
Peter Mason,2009, Tourism Impacts, Planning and Management, Butterworth Publication, NEW YORK

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BACHELOR OF BUSINESS ADMINISTRATION
(BBA) EXAMINATION
(Annual System)

BBA: - 1st Year

Paper No.	Name of the Paper	Marks	Time
BBA-101	Communication Skills	150	3 Hrs
	English	100	3 Hrs
	Hindi/Sanskrit	50	1.30 Hrs
BBA-102	Principles of Management	100	3 Hrs
BBA-103	Statistics & Quantitative Techniques	100	3 Hrs
BBA-104	Mercantile Law	100	3 Hrs
BBA-105	Financial Accounting	100	3 Hrs
BBA-106	Business Economics	100	3 Hrs
BBA-107	Industrial Psychology/	100	3 Hrs
	Computer Applications Part –A (Theory)	50	2 Hrs
	Computer Applications Part –B (Practical)	50	1.30 Hrs

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BBA: 2nd Year

Paper No.	Name of the Paper	Marks	Time
BBA-201	Management Accounting	100	3 Hrs
BBA-202	Marketing Management	100	3 Hrs
BBA-203	Financial Management	100	3 Hrs
BBA-204	Company Law and Secretarial Practice	100	3 Hrs
BBA-205	Human Resource Management	100	3 Hrs
BBA-206	Organizational Behaviour	100	3 Hrs
	Computer Applications- II Part –A (Theory)	50	2 Hrs
	Computer applications- II Part –B (Practical)	50	1.30 Hrs

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BBA: 3rd Year

Paper No.	Name of the Paper	Marks	Time
BBA-301	**Management Information System and Computer Application**	**100**	**3 Hrs**
BBA-302	**Indian Economy**	**100**	**3 Hrs**
BBA-303	**Income Taxes and Auditing**	**100**	**3 Hrs**
BBA-304	**Government and Business**	**100**	**3 Hrs**
BBA-305	**Management of Services**	**100**	**3 Hrs**
BBA-306	**Project Report + Viva-Voce (50+50)**	**100**	

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BBA- 101: COMMUNICATION SKILLS **Max. Marks :150**

A) ENGLISH **Marks :100**
Time: 3 Hrs.

A. Study of Text

Objectives: To enable the students to improve their intensive and extensive reading of English prose text (Essays and Stories) for comprehension of meaning and to write simple descriptions and narratives in effective functional English

Items:

1. Text book (Prescribed)(1): Developing English Skills edited by P.K. Thakur, S. D. Desai, and T. J. Purani (Bombay: Oxford University Press) (For intensive study).

2. Text-book (Prescribed) (2): Contemporary English Prose, edited by K.P.K. Menon (Madras: Oxford University Press) (Except Passages 5, 11 and 13) (For extensive Study).

B. Vocabulary and Sentence Formation

Objectives: To extend the students active and passive vocabulary and to give them greater familiarity with and Practice in using sentences to make meaningful utterances.

Items:

3 (a) Vocabulary
(b) Sentence-formation

(Involving remediation of common errors in the use in relevant contexts of the definite and indefinite article, prepositions and tenses and of reported speech active/passive voice, relative clauses and questions).

(C) Written Communication

Objectives: To enables the students to take practice in writing English for Business use, employing their learning of usage under B above,

4. Paragraph writing (on topics of business interest)
5. Writing business letters arid application

Outline of Examinations
Question to be set on the various items as follows:
Q. 1. (On item I)
One question consisting of two part-question :-

(a) One question requiring the students to answer questions based on one of the two given paragraphs from the prescribed textbook (1).

(b) One question out of the two given comprising a set cif five comprehension questions each, based on a whole passage in the short-answer questions appended to the passages in the textbook (1) of the same type (but not necessarily the same) as the short-arswer questions appended to the passages in the textbook.

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Q 2. (On item 2)

One question out of the two given requiring the students to describe the story or part thereof or some events, character, or to write on the moral or the title of the prescribed passages in the text book (2), of the same type as but not necessarily limited to the long-answer questions appended to the prescribed passages.

Q 3 (Consisting of Parts a and b)

On Item 3 (a)

One question requiring use in sentences often out of the given fifteen words and phrases limited to those treated of, in one form or another, under the head 'Word Study' in the notes appended to the passages of the text-book(1)

On Item 3 (b)

One question out of the given two of the same type as but not necessarily the same as the question given under the head Grammar' in the notes appended to the passages of the text-book. (1) (This question Will be limited to the grammatical topics mentioned in Item 3 above, and to the manner in which they are treated of at different places in the notes appended to the various passages of the textbook (1).

Q. 4. (Onltem4)

One question requiring the students to write a cohesive and coherent paragraph of about 250 words on one out of the five given topics of business interest.

Q. 5 (On Item 5)

One question requiring writing of a business letter or application.

N.B. In answers to the questions of items 4 and 5 above due / credit to be given to the use of proper register of business, particularly it peculiar terminology.

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(B) हिन्दी (अनिवार्य)

पूर्णांक : ५०

समय : ३ घण्टे

१ — *काव्य :* २० अंक

सप्रसंग व्याख्यार्थ दिये गये चार काव्यांशों में से दो की व्याख्या करनी होगी। पूछे गये दो कवियों में से एक कवि का साहित्यिक परिचय लिखना होगा। व्याख्या के लिए बारह तथा कवि-परिचय के लिए आठ अंक नियत हैं।

२ — *निबन्ध-लेखन* १० अंक

मानवाधिकार, महिलाधिकार, नैतिक शिक्षा, पर्यावरण-संरक्षण और व्यापारिक विषयों पर पूछे गये पांच निबन्धों में किसी एक विषय पर निबन्ध लिखना होगा, जिसके लिए दस अंक नियत हैं।

३ — *व्यापारिक पत्र* ५ अंक

विभिन्न व्यापारिक विषयों पर पूछे गये दो पत्रों में से एक पत्र लिखना होगा, जिसके लिए पांच अंक नियत हैं।

४ — *व्यापारिक शब्दावली* ५ अंक

व्यापार जगत् में प्रयुक्त होने वाली शब्दावली में से पूछे गये पांच अंग्रेजी शब्दों के हिन्दी–पर्याय लिखने होंगे, जिनके लिए पांच अंक नियत हैं। इस प्रश्न में कोई विकल्प नहीं होगा।

५ — *वाणिज्य विज्ञापन एवं तार* १० अंक

शत-प्रतिशत विकल्प सहित पूछे गये विज्ञापनों एवं तारों में से एक-एक विज्ञापन और तार के लिए सामग्री जुटानी होगी, जिनके लिए पांच+पांच = १० अंक नियत हैं।

पाठ्य ग्रन्थ

१. काव्य माधुरी : महर्षि दयानन्द विश्वविद्यालय प्रकाशनए १९९८।

सहायक ग्रन्थ

१ — प्रतियोगात्मक निबन्ध संचय : *डॉ० चमनलाल गुप्त मिनर्वा बुक हाऊस, शिमला।*

२ — निबन्ध–सौरभ : *तनसुखराम गुप्त सूर्य भारती प्रकाशन, दिल्ली।*

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B.B.A.I.

संस्कृतम् (अनिवार्यम्)

संस्कृत–साहित्यम् व्याकरणं च

पूर्णांक – 50
समय – 3 घण्टे

I संस्कृत–चयनिका और कौटिलीय अर्थशास्त्र

श्लोकों और गद्यांशों की सप्रसंग व्याख्या व पाठ सार/टिप्पणी आदि।

संस्कृत–चयनिका (प्रकाशन विभाग, कुरुक्षेत्र विश्वविद्यालय, कुरुक्षेत्र)

1. पद्य भाग – पाठ संख्या – 1 से 10 तक 15 अंक
2. गद्य भाग – पाठ संख्या – 1 से 10 तक
   व कौटिल्य अर्थशास्त्र (चौखम्बा विद्याभवन,वाराणसी)
   प्रथम अधिकरण,वार्तादण्डनीतिस्थापना अध्याय। 15 अंक

II संस्कृत व्याकरणम्

1. शब्द–रूप – राम, हरि, लता, मति, राजन, अस्मद्, युष्मद्, तद् व इदम् (तीनों लिंगों में) 6 अंक
2. धातु–रूप – भू, कृ, वद्, दृश्, अस्, सेव, क्री, नी, दा, (लट्, लोट्, लृट्, लङ्. लकारों में)6 अंक
3. अच्–सन्धि– दीर्घ, यण्, अयादि, गुण–वृद्धि, पूर्वरूप, पररूप, व प्रकृतिभाव। 8 अंक

अनुशंसित–ग्रन्थ :

1. संस्कृत–चयनिका, कुरुक्षेत्र विश्वविद्यालय, कुरुक्षेत्र।
2. कौटिलीय अर्थशास्त्र, चौखम्बा विद्याभवन, वाराणसी।
3. संस्कृत–व्याकरण – प्रबोध, राज पब्लिशर्ज, दिल्ली।
4. अनुवाद–चन्द्रिका, मोतीलाल बनारसी दास, दिल्ली।

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(B) HISTORY AND CULTURE OF HARYANA

Max. Marks : 50
Time : 3 Hrs.

1. Haryana: The land and people
2. Historical Perspective
3. Social life
4. Education and Literature
5. Arts and Crafts
6. Economy

Text Books Recommended:
K.C. Yadav. : Haryana : A Survey of History, Polity and Economy.

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BBA: 102-PRINCIPLES OF MANAGEMENT

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Management: Concept, nature, process, functions, role and responsibility of Management. Management Evolution Contribution of F.W. Taylor, Henry Fayol, Elton Mayo, Mc Gregor. Approaches to Management: quantitative and contingency approach.

Unit-II Planning: Nature, purpose, process, types, limitations of planning, Techniques and methods. Decision Making Introduction, Process, Techniques of Decision making

Unit-III Organizing: Concept, structure of organizing. Departmentation, Concept of authority, Deregulation of Authority. Decentralization. Staffing. Motivation : Nature, need and theories

Unit-IV Group Dynamics: Nature and types of group. Factors affecting Group Behavior, Leadership and Supervision: Nature, Theories and styles of Leadership. Effective Supervision and Management.

Unit-V Communication: Nature, Process, role, Channels and barriers of communication, effective communication, Control and coordination Purpose, Process and techniques of control and coordination. Social Responsibility of Business
Meaning and Need.

Recommended Books:

1. Koontz, H. arid Echoic, H.: Management, 10th ed., New York, McGraw Hill, 1995.

2. Robbins, S.P. : Management, 5th ed., New Jersey, Englewood Cliffs, Prentice Hall Inc

3. Stoner, 3 etc.: Management, 6th ed., New Delhi, Prentice Hall of India, 1996.

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BBA 103: STATISTICS & QUANTITATIVE TECHNIQUES

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Introduction, Importance, Uses of Statistics & Qualitative Techniques. Methods of Presenting Statistical Information & Collection of Data. Frequency Distribution. Measures of Central Tendency : Mean, Median & Mode. Measures of Dispersion : Range, Quartile Deviation, Mean Deviation, Standard Deviation & Variance. Measures of Variations & Skewness.

Unit-II Probability Theory : Definition of Probability, Events, Counting Rules & Computation of Probabilities. Addition, Multiplication rules, Conditional probability, Baye's theorem, Permutation & Combination.

Probability Distribution : Introduction, Binomial model, Poisson model, & Nominal distribution

Unit-III Sampling & Sampling Techniques. Forecasting : Meaning, Nature & Techniques (Qualitative & Quantitative Techniques), Methods of Least Square.

Unit-IV Correlation : Nature & Significance of Correlation, Types of Correlation, Methods of studying correlation.

Regression : Nature & Use of Regression Analysis, Regression Equation (two variables only). Time series : Nature, Components, Models of Time Series, Measures of Trends, Graphic methods, Methods of Moving Average, Methods of Least Square, Secular Trends, Cyclical, Seasonal & Irregular Fluctuations.

Unit-V Index Numbers : Nature, Use, Problems in Index Constitution, Weighted Index Numbers.

Recommended Books:

1. Hooda, R.P. : Statistics for Business and Economics, Macmillan, New Delhi.
2. Heinz; Kohler : Statistics for Business & Economics,. Harper Collins; New York.
3. Heinz, LW : Quantitative Approach to Managerial Decisions, Prentice Hall, NJ.
4. Lawrence, B. Morse: Statistics for Business & Economics, Harper Collins, NY.
5. Levin, Richard I and David S Rubin : Statistics for Management Prentice Hail, Delhi.
6. Watsnam Terry J. and Keith Parramor: Quantitative Methods in Finance international, Thompson Business Press, London.

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BBA-104 MERCANTILE LAW

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Indian Contract Act-1872- Contract : Meaning, Nature & Significance. Types of Contract & Essentials of a valid contract. Consideration. Capacity of Contract & Free Consent.

Unit-II Performance of Contract. Termination of Contract Indemnity & Guarantee, Bailment & Pledge.

Unit-III Sales of Goods Act 1930
- Essentials of contract of sales
- Condition & warranties
- Performance of the contract of sales
- Rights of unpaid seller

Unit-IV Negotiation Instrument Act 1881
- Meaning & Types of Negotiable Instruments
- Parties to Negotiable Instrument
- Payment & Collection of Cheques
- Endorsement & Dishonor of Negotiable Instruments

Unit-V Indian Partnership Act 1932
- Nature & Essential of Partnership
- Admission of Partner
- Retirement & Death of Partner
- Dissolution of Firm

Recommended Books:

1. ND. Kapoor- Elements of Mercantile Law, Sultan Chand & Sons, N. Delhi.
2. MC. Shukla - Mercantile Law. S.Chand & Co., New. Delhi.
3. Sen & Mitra - Commercial Law. World Press, Calcutta.

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BBA-105:- FINANCIAL ACCOUNTING

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Accounting: Meaning, nature, Functions & Usefulness, types of Accounting, Accounting Equation, Generally Accepted Accounting Principles, Concepts & Conventions.

Unit-II Recording of Transactions, Journal, Ledger, Drafting of profit & Loss accounts & Balance sheet of Non Corporate Entities. Rectification of Errors. Accounting of Negotiable Instruments. Reconciliation of Bank Accounts

Unit-III Accounting for Depreciation, Significance & Methods.

Unit-IV Accounting for Partnership Firms Introduction, Admission of a new partner, Death & Retirement of partners, Dissolution of Partnership Firms.

Unit-V Accounting for Consignment & Joint Venture. Single entry System & Double Entry System.

Recommended Books:

1. T.S.Grewal : Introduction to accounting, S.Chand & Co., New Delhi.
2. Shukla & Grewal : Advanced accountancy, S.Chand & Co., New Delhi.
3. R.L. Gupta & M. Radhaswamy : Advanced Accountancy Volume(i), Sultan Chand & Co., New Delhi.
4. B.D. Aggarwal : Financial Accounting - Volume (I), Pitamber Publishing Co., New Delhi.

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BBA-106: BUSINESS ECONOMICS

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Economics: its definition, nature and scope, methods of analysis, nature of economic laws, economics as science & art. Some Basic Concepts: Utility, value, goods, capital, income, wealth micro and macro, stock and flows, static and dynamic equilibrium, firm, industry and market.

Unit-II Demand Analysis: Individual and market, law of demand, Theory of consumer behaviour, cordial utility and indifference curve approaches, price, income and substitution effect, marginal rate of substitution & derivation of demand curves.
Concept of Consumer Surplus: Elasticity of demand (Price, Income and Cross elasticity of demand), and demand forecasting, Law of supply and elasticity of supply.

Unit-III Production Factors of production—their definitions and distinguishing characteristics. Labour: meaning and factors affecting efficiency of Labour; division of Labour Organization and Entrepreneurship-definition and functions.

Theory of production: Production function : law of returns scale; law of variable proportions; internal and external economies and diseconomies. Theories of costs: explicit and implicit costs, concept of opportunity cost.

Unit-IV: Theory of Price determination: Market forms, price determination during market period, short run and long run under perfect competition. Monopoly: meaning; revenue and costs; equilibrium of the monopolists in the short run and long run. Price discrimination: meaning, conditions, degrees, equilibrium of under discriminating monopoly. Monopolistic competition: meaning, product differentiation and demand curve, firm and group equilibrium, selling costs; determination of equilibrium level.

Unit-V : Theory of factor pricing: Marginal productivity theory, assumptions and limitations. Rent-Its nature, Ricardo and Modern theory of rent; Interest: meaning, theories of interest (classical, neoclassical and liquidity preference). Wages: meaning, real and money wages, theories of wage determination; wage differential and concept of minimum wages), fair wages and living wages. Profit: meaning, gross and pure profit; theories of profit determination.

Books Recommended:

1. Stonier and Hague : A Text Book of Economics Theory
2. Leftwitch, T.H. : Price System and Resource Allocations.
3. Watson, D. S. : Price Theory and its Applications.
4. Ahuja, H.L. : Advanced Economic Theory
5. Dewett, K.K. : Modem Economic Theory
6. Koutsoyarnics. A. : Modern Micro Economics
7. Furgurson , O.E. : Micro Economic Theory
8. KP.M. Sundharam & : Micro Economics

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BBA-107: INDUSTRIAL PSYCHOLOGY

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Course Contents:

Unit-I Nature of Psychology: Approaches to Psychology; Scope of Contemporary Psychology; Measurement in Psychology. Biological Foundations of Behavior: Central Nervous System; Peripheral Nervous System, Endocrine System; Genetic on Behavior.

Unit- II Learning and Memory : Classical conditioning; operant conditioning; concept of Reinforcement; cognitive learning; Short Term Memory; Long Term Memory; Forgetting; Improving Memory: Language and Thought; Language and Communication; Visual Thinking; Problem solving.

Unit-III Personality and its Assessment: Determinants of Personality, Trait Approach. Social Learning Approach: Psycho-and analytic Approach: Phenomenological Approach; Personality Assessment.

Unit-IV Emotion: Theories of Emotions; Optimal level of arousal, Conflict and Stress; Frustration; Reaction to Frustration; Anxiety; Defence Mechanism.

Unit-V Human Social Behavior Individual Social Behavior: Social Information Processing; Attitude Formation and Change.

Social Influence—Presence of Others: Conformity and Obedience; Persuasion; Environmental Psychology, Social Norms and Roles.

Books Recommended:

1. AtkinSon. R.L.: Hilgard E.R.; Introduction to Psychology, New York: Harcourt Brace Jovanovich.
2. Smith R.E.: Sarsaon, l.G.: Sarason, B.R.: Psychology-The Frontiers of Behaviour; New York: Harper & Row Publishers.
3. Mc Connell: J.V., Understanding Human Behaviour, New York:Holt, Rinehart and Winston.
4. Hothersall, D.Psychology, London : Charles & MerriIl

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BBA-107 COMPUTER APPLICATIONS

Part-A (Theory)

Max. Marks: 50
Time: 2 Hours

Unit-I Computer: Definition, characteristic and generation. Classification of computer according to basic design (analog, digital, and hybrid). Classification according to capacity (micro, mini, main frames and super computer) Configurations of Pcs. Basic types and Features of popular input/output and direct access auxiliary stages device. Types of Software.

Unit-II Definition, features of topologies. Components of local area network. Concept of Electronic mail and description of popular e-mail services. Description of Service available on internet.

Unit-III Computer application business, impact of computer on society. Policies of government in regard to computer industry. Social inner in computer.

Part-B (Practical)

50 Marks (1.30 Hours)
Practical work book 10 Marks
One practical question 25 Marks
Viva-voce: 15 Marks

Note (I) Practical work book should be based on operating system, word—processing and spreadsheet software packages (elementary commands with examples.)

(ii) One Practical question shall consist of writing a letter (using word processing software features or calculating a numerical problem (using spreadsheet software elementary formulas and functions). From these two practical questions only one question shall be given by the examiner and there shall be no choice.

(iii) The practical examination and viva-voce will be conducted by two examiners; one of them will be internal. The practical examination will be conducted in convenient groups.

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BBA 201: MANAGEMENT ACCOUNTING

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Introduction to Management Accounting: meaning nature, scope & functions, management accounting vs. cost accounting , management accounting vs. financial accounting

Unit-II - Break: even Analysis: concept, formula and uses, B.E point on the PV graph, Cost- Volume - Profit relationships: the relationship of costs & profit with volume, uses & limitations.

Unit-III- Cost Analysis for Decision Making: Decisions facing management. The role of costs, relevant cost, contribution approach, relevance & costs behavior, short term & long term indications, Opportunity cost. Marginal Analysis: Concept, Decision involving alternative choices, nature of managerial decision making, concept of differential costs, decision to make or buy, decision to accept a special order , decision to continue or drop a product line

Unit-IV - Budgeting & budgetary control: Budgeting as a tool, uses & organisation of budgeting, limiting budget factors, the budgeting process, step in budget preparation, types of budget.

Unit-V - Standard costing & variance analysis: Meaning, purpose, standard costing vs. historical costing, types of standard, concept of variance analysis, computation of material & labour variance

Books Recommended:

1. Charles, Homgreen Managerial Cost Accounting.
2. Hingorani Ramanathan & Crowal
3. Anthony : Management Accounting.

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BBA-202 : Marketing Management

Max. Marks: 100
Time: 3 Hours

Note: .In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I

Definition of Marketing and marketing management : Nature, Scope and Importance of Marketing; Modern Marketing concept, role of marketing in economic development, marketing management: process and functions. The dynamic marketing environment, marketing mix, market segmentation.

Unit-II

Marketing Information System: Concept and Components of a marketing information system. Marketing Research: meaning, scope and techniques, Market measurement and forecasting, Consumer behaviour: meaning and importance,buying motives, buying process, factors influencing consumer behaviour.

Unit-III

Product decisions: the concept of product,classification, product differentiation, product-line decisions, New Product development process, product life cycle, Packaging and Branding decisions

Unit-IV

Pricing Concepts: Objectives, policies and procedures, factors affecting pricing, pricing strategy and product life cycle, price changes and organizational strategies, product line-pricing.

Unit-V

Marketing Communication—promotion-mix; Advertising, sales promotion and publicity, personal selling decisions.Channels of distribution: concept, types and factors affecting channel selection. Role of Information technology in marketing.

Suggested Readings:

1. Mc Carthy; E.J. : Basic marketing -A Managerial Approach

2. Rama Swamy & Nama Kumari : Marketing Management

3. Kotler, Philip : Marketing Management Analysis Planning and Control.

4. Still and Cundiff : Basic Marketing.

5. Stanton et. al. : Marketing Management.

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BBA -203: FINANCIAL MANAGEMENT

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-l :	Financial Management: Meaning and scope, Functions of financial management, Organization of finance functions.
Unit II	Financial Planning: Meaning of financial planning and its scope, Cost of capital: meaning, computation of cost of capital,
Unit III	Capital structure planning, theories of capital structure, optimal capital structure
Unit-IV	Capital budgeting and working capital management.
Unit V	Dividend decisions: theories of dividend decisions, Dividend models: Walters Dividend model, Gorden dividend model.

Books Recommended:

1. S.N. Maheshwari : Financial Management-Principles practice

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BBA 204 : Company Law and Secretarial Practice

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Introduction to company : formation of the company, role of promoters, rights and powers of promoters. Memorandum of Association: clauses and alternation, article of association: types and doctrine

Unit-II Prospectus: guidelines, requirement, share capital types, limits, debenture: issue of debenture, membership

Unit-III Investment and borrowing powers: requirements, guidelines, mortgages and charges company deposits : limits and requirements.

Unit-IV Company Secretary : role and qualities of company secretary. Qualification requirement for company secretary, powers and responsibilities.

Unit-V Directors : types of directors, qualification and disqualification of directors. Right and duties of director, role of managing Directors. Powers of directors, appointment and re-appointments of Directors. Retirement of Directors : Limits and guidelines, resignation by Directors. Removal of Directors : guidelines, issues. Directors in Public company and in private company.

Book Recommended

1.Avtar Singh: Company Law, 11th ed., Lucknow, Eastern, 1996.
2. Khergamwala, JS : The Negotiable Instrument Acts, Bombay, N.M. Tripathi, 1980.
3. Ramaiya, A. : Guide to the Companies Act, Nagpur, Wadhwa, 1992.
4. Shah, S M.: Lectures on Company Law, Bombay, N.M. Tripathi, 1990.
5. Tuteja, S K : Business Law for Managers, New Delhi, Sultan Chand, 1998

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BBA-205: HUMAN RESOURCE MANAGEMENT

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit –I : HRM – an Introduction Personnel Management: An Introduction. Objectives, Significance and Qualities of Personnel Manager. Human Resource Planning.

Unit-II : Job Analysis. Recruitment and Selection .Placement and Induction.

Unit-III: Training and Development. Workforce Adjustment Promotion, Transfers and Demotion.

Unit-IV: Compensation Factors affecting compensation, Essential Requirements of sound compensation plan.

Unit-V Wage and Wage Fixation Machinery. Productivity and Related concepts. Quality of Work Life Absenteeism and Turnover

Books Recommended:

I Aswathappa, K. : Human Resource and Personnel Management, Tate McGraw Hill, New Delhi, 1997.

2. Dc Cenzo, D. A. & Robbins S.P. : Human Resource Management, 5th ed, New York, John Wiley, 1994.

3. Guy, V & Mattock, 1. : The New International Manager, London, Kogan Page, 1993.

4. Holloway, I. Ed : Performance Measurement and Evaluation, New Delhi, Sage, 1995.

5. Monappa, A & Saiyadain M. : Personnel Management, 2nd., New Delhi, Tata McGraw Hill, 1966.

6. Stone, Lloyd and Leslie W. Rue : Human Resource and Personnel Management, Richard D. Irwin, Illinois, 1984.

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BBA- 206: ORGANISATIONAL BEHAVIOUR

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I	Organization and its Analysts-: Nature-of organization; Nature or organizational behavior:
Unit-II	Individual dimensions of organizational behavior: Nature of Human Behavior, Perception, learning and behavior' modification, personality, attitude, motivation. Socio-cultural factors and behavior dynamics of groups.
Unit-III	Interactive dimension of organizational behavior, Interpersonal behavior group. dynamics and behavior power, authority and politics, leadership, Communication organizational conflicts.
Unit IV	Structural dimensions- of organizational behavior- Organization theory, determinants of organization structure- designing of organization structure, forms of Organization structure, bureaucratic organization.
Unit-V	Organizational effectiveness and-change effectiveness. Organizational change and development.

Books Recommended:

1. Koontz, H. arid Wechrich, H.: Management, 10th ed., New York, McGraw Hill, 1995.
2. Luthans, F. : Organizational Behaviour, 7th ed., New York, McGraw Hill, 1995.
3. Robbins, S.P, : Management, 5th ed., New Jersey, Englewood Cliffs, Prentice Hall Inc., 19%.
4. Robbins, SP. : Organizational Behaviour, 7th ed., New Delhi, Prentice Hall of India, 1996.
5. Staw, B.M. Psychological Dimensions of Organizational Behaviour, hi ed., Englewood Cliffs, New Jersey, Prentice Nail Inc., 1995.
6. Stoner, 3 etc. : Management, 6th ed., New Delhi, Prentice Hall of India, 1996.
7. Singh, Dalip: Emotional Intelligence at Work, Response Books, Sage Publications, Dclii, 2001.
8. L.M. Prasad: Organizational Behavior.

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BBA – 206 : COMPUTER APPLICATIONS – II
Part: A (Theory) **Max. Marks: 50**
Time : 2 Hrs

Unit-I Database System: Concept and its Components, Data Processing Methods. Data Structure for database Processing. Overview of Logical and Physical database design, Normal Forms

Unit-II Data Models: Hierarchical; Network; and Relational. Introduction to SQL,
Data Security Aspects Concept of Distributed and Object Oriented databases.

Unit-III Programming language Concept. Steps in Program Development Programming Aids and Techniques. Concept& Features of 4th Generation Language

Part-B (Practical)

50 Marks (1.30 Hours)
Practical work book 10 Marks
One practical question 25 Marks
Viva-voce: 15 Marks

Note:

(i) Practical- work book- should: be based- on date definition and manipulation features (i.e. creating -database file! table, adding, editing, indexing1searchjng/SQL deleting; records, creating screen/form, label,: reports etc:-) and programs using data base software and its language (elementary level).

(ii) One practical question shall consist of data definition and manipulation features and/or a program using database software From these two practical questions only one question shall be given by the examiner and there shall be no choice.

(iii) The practical examination and viva-voce will be conducted by two examiners; one of them will be internal. The practical examination will be conducted in convenient groups.

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BBA 301: Management Information System and Computer Application

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Computer Evolution: History of computers, computer hardware, hardware components. Input/output devices and their features. Computer software, system software, application software and packages.

Unit-II Operating system with emphasis on DOS and WINDOWS, internal and external commands. Applications of computers in business and industry Basic concepts of Networking

Unit-III MIS: Meaning and Scope. Evolution of the use of computers in organizations. SAD (System Analysis and Design).

Unit-IV Spreadsheet Software: Basic features & Functions: MS-Excel. Word Processor: MS-Word Basic features & Functions.

Unit-V DBMS: Database Management System Processing of common business applications like inventory management , financial accounting, recruitment, payroll etc. Introduction to Information Technology Act, cyber crimes.

Books Recommended :-

1. S.C. Bhatnagar & Ky. Rarnani : Computers & Information Management A Primer for Practising Managers.

2. Murdick Robert G. Ross. : Joet E Information System for Modem Management.

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BBA-302: INDIAN ECONOMY

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I : Concepts of Economic Development and Economic growth Developed and developing countries; Determinants and obstacles of economic development, Vicious Circle of poverty.

Unit-II Economic Planning; Concept, Definition, types and need for economic planning.
Economic Planning in India, Objectives, Strategies, Financing and evaluation of India Five Year Plans. Outline of the Current Five Year Plan

Unit-III Unemployment problem: and Remedial Measures, Govt. Policy adopted in India for removal of unemployment. Population and Economic Development Theory of Demographic Transition, Problem of Unequal distribution of income and the Concentration of Wealth and its Remedial Course.

Unit-IV Indian business practice: Public sector-evolution role pricing policy performance and short comings private sector-role, problems and prospects of private sector in lndia. Industrial sickness. Privatization and disinvestment of PSUs.

Unit-V Foreign Trade in India; Volume, Composition and direction of India's Foreign Trade, Balance of payments. Export Promotion and Import substitution, Parallel Economy, New Economic Reforms. Privatization, Liberalization and globalization, New Industrial Policy in India.

Books Recommended:

1. K.P.M. Sundram and Datt : Indian Economy
2. Mishra and Purl Theory and Practice. : Development and Planning
3. Aggarwal and Singh : Economics of Development.

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BBA 303 Income Taxes and Auditing

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I: Income Tax and Laws Definitions: previous year, assessment year, gross total income, total income, agricultural income. Residential status- determination of residential status, incidence of tax, income exempt from tax.

Unit-II: Head of Income: Income from salaries. Income from House property. Profits or Gain from Business and profession.

Unit-III Capital Gains, income from other sources. Deemed incomes. Aggregation of incomes and deemed incomes, set off and carry forward of losses. Deductions to be made in computing total income, rebate and reliefs. Assessment of individual, computation of tax liability.

Unit-IV Meaning and objects of Audit, Procedure of Audit, importance and limitations of Audit. Kinds of Audit, continuous Audit, periodical Audits, interim Audit, Audit programme.

Unit-V Verification of Assets and Liabilities, Audit of sole proprietorship, Appointment, removal and remuneration of Company Auditor- Audit report and certificates.

Books Recommended:-

1. Income Tax Laws : H.C. Mehrotra
2. Income Tax Laws & Practice : V.K. Singhani
3. Contemporary Audit : Kamal Gupta
4. Auditing : B.N. Tandon

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BBA-304: GOVERNMENT AND BUSINESS

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Government Regulation of business. Perspective, Rationale and Framework adopted in India. Economic Planning and Policy implications. Industrial Regulation Policy Framework, Legal framework of industrial regulation.

Unit-II Industrial Sickness, Small Scale Industries, Development and Protection.

Unit-III Public sector and role of public enterprises. Organizational structure, pricing policies Public Enterprises. Performance Evaluation, Joint sector scope & constraints.

Unit-IV Regulation of Economic Concentration and trade practices. Foreign investment& collaboration. Control of corporate new capital issues, securities market; Regulation & Development.

Unit-V Import-Export policy. Consumer Protection.

Books Recommended

1. P,K.Ghosh : Business & Government
2. Sengupta N. : Government & Business

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BBA-305 MANAGEMENT OF SERVICES

Max. Marks: 100
Time: 3 Hours

Note: In all ten questions will be set in the question paper, with at least two questions from each unit. The candidates will be required to attempt five questions in all, selecting one question from each of the five units.

Unit-I Conceptual framework: Meaning; definition; nature; scope and importance. Characteristics of services, services such as insurance, merchant banking, credit rating and factoring.

Unit-II Financial aspects in services; financial planning, sources of finance, financial analysis.

Unit-III Marketing aspects in services, marketing mix in service marketing, Designing of service marketing strategy.

Unit-IV Operations in services, operations system; location and layout; capacity planning; planning and control of service operations; quality control in services.

Unit-V Personnel aspects; recruitment, selection, training development and compensation.

Books Recommended:

1. Ravi Shanker : Service Marketing
2. S.N.Jha : Service Marketing
3. Philip Kotler : Marketing of Non-Profit Organization
4. RD. Aggarwal : Organization & Management

BBA-306 Project Report + Viva-Voce Marks 50+50

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B.A.II
Semester III
2011-12
ENGLISH (COMPULSORY)

SCHEME OF EXAMINATION

Max. Marks	100
End Semester Exam	90
Internal Assessment	10
Time	3 Hours

1. *Sounds in Stillness: An Anthology of Poems.* ed.by S.S. Sangwan . Delhi: OUP.

2. Selected episodes from *Mahabharta* by C.Raja Gopalachari, Mumbai 7 : Bharatiya Vidya Bhavan .

   The episode "Ganapti, the Scribe" and first 24 Chapters from "Devarata" to "The Wager"are prescribed for study.

3. Grammar, Pronunciation/Transcription
   From A *Text book of Grammar* by Inderjit Kumar and Sanjay Kumar. Kurukshetra : K U K.

Note: The question paper will carry a maximum of 90 marks.

The paper will have six questions as per details given below

Q.1 Explanation with reference to the context : Candidates will be required to attempt *two* extracts *one* each from the book of poems i.e.*Sounds in Stillness* and *Mahabharta*. The passages will have internal choice.
7 x2=14 marks

Q.2 Short-answer type questions
Four short-answer type questions will be set on the prescribed poems and *four* short-answer type questions will be set on *Mahabharta*. Students will be required to attempt *five* questions out of given *eight* questions selecting at least *two* from each text (i.e.*Sounds in Stillness* and *Mahabharta*)
5x4=20 marks

Q.3 *One* essay type question (with internal choice) will be set on the prescribed book of poems.
14 marks

Q.4 *One* essay type question (with internal choice) will be set on *Mahabharta* .
14 marks

Q.5 *Fifteen* words / phrases from the book of poems and *Mahabharta.* Students will be required to use any *twelve* in sentences of their own 12x1=12 marks

Q.6 Questions on Grammar on the prescribed items(use of Tenses in communicative situations, subject-verb concord, active and passive voice, narration, common errors, word power, vocabulary, idioms and phrases) and transcription based on prescribed text-book of Grammar but not necessarily the same as those given in
the text book. The candidate will be required to attempt *sixteen* items out of given *twenty*.
16 marks

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B.A.II
Semester IV
2011-12
ENGLISH (COMPULSORY)

Max. Marks	100
End Semester Exam	90
Internal Assessment	10
Time	3 Hours

1. *Snapshots: An Anthology of One-Act Plays.* ed. S.K.Sharma. New Delhi: OUP.

2. Selected episodes from *Mahabharta* by C.Raja Gopalachari, Mumbai 7 : Bharatiya Vidya Bhavan .

   Chapters 25 to 49 i.e. “Draupadi’s Grief” to ”Arjuna’s Charioteer.”

3. Precis, Translation, Comprehension, email and Resume writing
   From A *Text book of Grammar* by Inderjit Kumar and Sanjay Kumar. Kurukshetra : K U K.

Note: The question paper will carry a maximum of 90 marks.

The paper will have five questions as per details given below

Q.1 Explanation with reference to the context. Candidates will be required to attempt *two* passages (with internal choice) from the prescribed book of one act plays *i.e. Snapshots.* 5x2=10 marks

Q.2 Short answer type questions will be set on the prescribed book of one act plays. Students will be required to attempt any *four* out of the given *six* questions. 4x4=16 marks

Q.3 Short answer type questions will be set on *Mahabharata* will be required to attempt any *four* out of the given *six* questions. 3x4 = 12 marks

Q.4 *Two* essay type questions (a) and (b) (with internal choice) will be set on the prescribed book of one act plays and *Mahabharta.* Part (a) and (b) will be set respectively on each prescribed book.
2x6= 12 marks

Q.5 The break up of Question No.5 is as under:-

a) Precis : 8 marks
   A passage of about *350* words will be given.

b) Translation : 7 marks

   Translation from English to Hindi of a passage consisting of *9* to *10* sentences on a general topic. (In lieu of translation, foreign students will be required to write a paragraph of about 150 words on any *one* of the *three* given topics)

c) Comprehension :

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Comprehension passage of about 300 words
followed by six questions at the end. 9 marks

d) Drafting email : 8 marks
expressing views about any current topic

e) Resume writing : 8 marks
The examiner will give specific details to the students
about the purpose and the kind of the resume.

Suggested Reading:

Communication Skills in English by S.D.Sharma
Essentials of Communication by D.G.Saxena, Kuntal Tamang

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B. A. II
(Semester-III)
ADDITIONAL ENGLISH
(2011-12)

SCHEME OF EXAMINATION

Max. Marks 100
End Semester Exam 90
Internal Assessment 10
Time 3 Hours

Texts

Part-I *English Essayists.* Ed. Sushant K. Sinha (Delhi: O.U.P,1978)
The candidate will be required to study the following essays:

1. A.C.Benson "The Art of the Essayist"
2. Francis Bacon "Of Studies"
3. Joseph Addison "Sir Roger at Church"
4. Richard Steele "The Spectator Club"
5. Charles Lamb "The Two Races of Men"
6. William Hazlitt "On Familiar Style"
7. R.L. Stevenson "Walking Tours"
8. E.V. Lucas "A Funeral"
9. Hillaire Belloc "In Praise of Ignorance"

Part-II *Fragrance* (A Poetry Anthology). Ed. K. Sreenivasan (O.U.P.) excluding the following poems:

i) "Ode to a Skylark" by P.B. Shelley
ii) "Ode on a Grecian Urn" by John Keats
iii) "A Prayer for My Daughter" by W. B. Yeats

Note: The question paper will carry a maximum of 90 marks.

The paper will have six questions as per details given below

Q. 1. Two extracts for explanation with reference to the context (with internal choice) from Part I and II. 10x2=20

Q. 2. One essay type general question (with internal choice) on Part I requiring students to give answer in about 300 words. 15

Q. 3. One essay type general question (with internal choice) on Part II requiring the students to give answer in about 300 words. 15

Q. 4. Students will be required to answer in about 50 words each any *five* out of the given *eight* questions on Part-I. 5x3=15

Q. .5 Students will be required to answer in about 50 words each any *five* out of the given *eight* questions on Part-II. 5x3=15

Q. 6. Students will be required to give meanings of *any five words out of the given eight* (from the prescribed texts) and also use them in sentences of their own to make the meaning clear. 5x2= 10

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B. A. II
(Semester-IV)
ADDITIONAL ENGLISH
(2011-12)

SCHEME OF EXAMINATION

Max. Marks 100
End Semester Exam 90
Internal Assessment 10
Time 3 Hours

Part-I *Lord of the Flies* by William Golding
Part-II Essay, Precis and Comprehension

Note: The question paper will carry a maximum of 90 marks.

The paper will have six questions as per details given below

Q.1. One general essay type question with internal choice requiring a first hand study of the prescribed text. Students will be required to give the answer in about 350words.
15 marks

Q.2. The question will consist of eight short answer type questions from the prescribed text on character, theme, plot, technique, imagery etc. The students will be required to answer *any five out of the given eight* questions in about 150 words each.
5x5 = 25 marks

Q.3. Essay: The students will be required to write an essay in about 250 words on any *one* out of the *four/five* given topics of reflective, descriptive and/or literary nature.
15 marks

Q.4. Precis: Reducing a given passage of about 300 words to one third of its length (in student's own words) and giving it a suitable heading. 15 marks

Q.5. Unseen passage for comprehension. 10 marks

Q.6. Students will be required to give phonemic transcriptions of any *five* of the given *ten* words from the prescribed novel(only first twenty five pages of the text of the prescribed novel).
5x2=10 marks

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B.A II (Honours) English
Semester III
Session 2011-12

Paper-V : Literature in English (1750-1830)

SCHEME OF EXAMINATION

Max.Marks	:	100 marks
End Semester Exam	:	90 marks
Internal Assessment	:	10 marks
Time :		3 hours

Texts Prescribed for Detailed Study:

A) William Wordsworth " Daffodils," " The Solitary Reaper,"
" The World is Too Much With us,"
" Lines Composed upon Westminster's Bridge,"
" Lucy," " It's a Beauteous Evening"
(From Fifteen Poets)

B) S.T. Coleridge " Dejection: An Ode," " Frost at Midnight,"
(From Fifteen Poets)

C) John Keats " When I Have Fears ," " La Belle Dame Sans Merci,"
" On First Looking into Chapman's Homer," " To Autumn"
(From Fifteen Poets)

Note: The question paper will carry a maximum of 90 marks

The paper will have six questions as per details given below

Q.No. 1 Students will be required to explain with reference to the context all the three stanzas (with internal choice) from A, B and C respectively.

3x8= 24

Q.Nos. II, III, and IV will be essay type questions set on A, B and C respectively. Students will be required to attempt any *two* out of given *three* questions.

2x18=36

Q. Nos. V and VI (with internal choice) will be set on the literary history of this period with special focus on the important trends, movements and schools etc. Questions on individual authors will not be asked.

2x15=30

Recommended Reading

(i) *English Literature: Its History and Significance* by William J. Long (Indian edition)

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(ii) *An Introduction to the Study of English Literature* by W.H.Hudson (Lyall Books Depot)
(iii) *The Short Oxford History of English Literature* by Andrew Sanders (OUP India)
(iv) *The Concise Cambridge History of English Literature* by George Sampson Cambridge University Press, New Delhi).
(v) *The New History of English Literature* by Bhim S. Dahiya Delhi: Doaba
(vi) *The Routledge History of Literature in English* by Ronald Carter and John Mcrae (London and New York:Routledge, 2010)
(vii) *Romantic Imagination* by C.M.Bowra (Oxford)
(viii) *An Oxford Guide to Romanticism* Nicholas Roe (Oxford Press, Indian Edition)
(ix) *The Mirror and the Lamp* by M.H.Abrams(Oxford)
(x) *English Poetry of the Romantic Period* by J.R.Watson (Longman)
(xi) *The Cambridge Companion to British Romanticism* (Cambridge)
(xii) *A Preface to William Wordsworth* by John Purkins (Longman)
(xiii) *A Preface to S.T. Coleridge* by Allan Grant (Longman)
(xiv) *Coleridge's Poetry and Prose*: ed, by Nicholas Halmi, Paul Magnuson and Raimonda Modiano (A Norton Critical Edition)
(xv) *John Keats:Odes (Case book Series)*ed. G.S.Fraser (Macmillan)

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B.A.II (Honours) English
Semester III
Session 2011-12

Paper–VI: Literature in English (1750-1830)

SCHEME OF EXAMINATION

Max. Marks	:	100 marks
End Semester Exam	:	90 marks
Internal Assessment	:	10 marks
Time :		3 hours

Texts Prescribed for Detailed Study:

A) Oliver Goldsmith *Vicar of Wakefield*
B) Jane Austen *Emma*

C) Charles Lamb " Poor Relations," " The Superannuated Man," " In Praise of Chimney Sweepers," "Imperfect Sympathies"
(From A Book of English Essays, ed. W.E Williams. Penguin.)

Note: The question paper will carry a maximum of 90 marks.

The paper will have six questions as per details given below

Q.No. 1. will consist of three short-type questions(with internal choice) to be attempted in approximately two hundred (200) words each set on A ,B and C respectively.

3x8=24

Q. Nos. II, III, and IV will be essay-type questions set on A, B and C respectively. The students will be required to do any *two* out of the given *three* questions.

2x18=36

Q. Nos. V and VI (with internal choice) will be set on the literary history of this period with special focus on the important trends, movements and schools etc. Questions on individual authors will not be set.

2x15=30

Recommended Reading

(i) *English Literature: Its History and Significance* by William J. Long (Indian edition)
(ii) *An Introduction to the Study of English Literature* by W.H.Hudson (Lyall Books Depot)
(iii) *The Short Oxford History of English Literature* by Andrew Sanders (OUP India)
(iv) *The Concise Cambridge History of English Literature* by George Sampson (Revised by R.C. Churchill, Cambridge University Press, New Delhi).
(v) *The New History of English Literature* by Bhim S. Dahiya Delhi: Doaba
(vi) *The Routledge History of Literature in English* by Ronald Carter and John Mcrae (London and New York:Routledge, 2010)
(vii) *An Introduction to the English Novel, Vol.* 1 Arnold Kettle (UBS).
(viii) *Jane Austen's Emma*, Stephen. M. Parrish (A Norton Critical Edition)
(ix) *Jane Austen's Emma* (Viva Modern Critical Interpretation)
(x) *Emma:Collection of Critical Essays*, Robert Clark (New Casebook Prentice Hall)

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(xi) *Jane Austen's Emma* (Macmillan)
(xii) *Oliver Goldsmith* (Chelsea house 1987)
(xiii) *Oliver Goldsmith : The Critical Heritage* (Routledge)
(xiv) *Companion to Charles Lamb* (Mansell)

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B.A. II (Honours) English
Semester III
Session 2011-12

Paper-VII : Grammar and Contemporary English Usage

SCHEME OF EXAMINATION

Max. Marks : 100 marks
End Semester Exam : 90 marks
Internal Assessment : 10 marks
Time : 3 hours

1 Essay
2 Comprehension
3 Grammar:

i. Parts of Speech

ii. Verbs:
(a) Main and auxiliaries
(b) Linking (or equative) intransitive and transitive
(c) Finite and non-finite
(d) Sequence of Tenses

iii. Word Order: Position and order of objects; Substitute subjects: 'its' and 'there'; Inversion of verb and subject after certain adverbs; Order of words in indirect questions.

iv. Verb Patterns

v. Adjective equivalents:
(a) Nouns
(b) Participles
(c) Gerunds

vi. Adverbs, adverbial particles and adverb phrases:
a) Their Positions
b) Kinds of Time, Place, Manner, Frequency, Duration and Direction

vii. Prepositions of time, place, direction; for and since; under, underneath; below, beneath; over and above; between and among; describing people and their clothes; at; by; in; on; out; of.

Note: The question paper will carry a maximum of 90 marks.

The paper will have nine questions as per details given below

Q.No. I. Students will be required to write an essay in about 450 words on any *one topic out of the given four/five* topics of literary and creative nature. (17)
Q.No.II. Unseen passage of comprehension. (10)

Q.Nos. III, IV, V, VI, VII, VIII, and IX (9 Marks each) will be set on items (i) to (vii) given under Grammar. (A*ll these questions will have sufficient choice*).
(9x7=63)

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Note: In questions on grammar the students may, for example, be asked:

i) To form sentences of their own using the given material/verb patterns.
ii) To complete the given incomplete sentences.
iii) To fill in the blanks.
iv) To re-write the sentences with the desired changes.
v) To make corrections in the given strings and/or
vi) To pick up the correct answer out of *four/five* alternatives provided (multiple-choice questions).

All/any of these questions may be based on isolated sentences or short paragraphs.

Books Prescribed

1. Hornby, A.S. *Guide to Patterns and Usage in English* (ELBS)
2. Graver, B.D. *Advanced English Practice*
3. Corder, S. Pit. *An Intermediate English Practice Book (Orient Longman)*

Recommended Readings

1. Vallins, G. D. *Good English: How to Write it* (ELBS)
2. –do- *Better English*
3. Hudson, W.H. *An Introduction to the Study of English Literature*
4. Scaibsbye, Kund *A Modern English Grammar* (O.U.P.)
5. Wood, F.T. *A Remedial English Grammar for Foreign Students*
6. Zandvoort *A Handbook of English Grammar* (ELBS)

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B.A. II (Honours)English
Semester IV
Session 2011-12

Paper-VIII: Literature in English (1830-1900)

SCHEME OF EXAMINATION

Max. Marks	:	100 marks
End Semester Exam	:	90 marks
Internal Assessment	:	10 marks
Time	:	3 hours

Texts Prescribed for Detailed Study:

A) Lord Tennyson " Break, Break, Break," "Ulysses," "The Lady of Shallot," "The Lotus- Eaters," "Tears,Idle Tears" (From Fifteen Poets)

B) Matthew Arnold " Dover Beach," "Memorial Verses," "Shakespeare," "To Marguerite," "Life and Thought" (From Fifteen Poets)

C) Robert Browning " Porphyria's Lover," " My Last Duchess," "Rabbi Ben Ezra" (From Fifteen Poets)

Note: The question paper will carry a maximum of 90 marks.

The paper will have six questions as per details given below

All the Questions are Compulsory

Q.No.1. The Students will be required to explain with reference to the context all the three stanzas(with internal choice) from A, B and C respectively. 3x8=24

Q.Nos. II, III, and IV will be essay type questions set on A, B and C respectively. Students will be required to attempt any *two* out of given *three* questions. 2x18=36

Q. Nos. V and VI (with internal choice)will be set on the literary history of this period with special focus on the important trends, movements and schools etc. Questions on individual authors will not be asked. 2x15=30

Recommended Reading (General)

(i) *English Literature: Its History and Significance* by William J. Long (Indian edition)
(ii) *An Introduction to the Study of English Literature* by W.H.Hudson (Lyall Books Depot)
(iii) *The Short Oxford History of English Literature* by Andrew Sanders (OUP India)

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(iv) *The Concise Cambridge History of English Literature* by George Sampson (Revised by R.C. Churchill, Cambridge University Press, New Delhi).
(v) *The New History of English Literature* by Bhim S. Dahiya Delhi: Doaba
(vi) *The Routledge History of Literature in English* by Ronald Carter and John Mcrae (London and New York:Routledge, 2010)
(vii) *Major Victorian Poets: Reconsiderations* by Isobel Armstrong (Routledge)
(viii) *English Poetry of the Victorian Poets 1830- 1890* by Bernard Richards(Longman)
(ix) *Tennyson's Poetry* by Robert W. Hill.Jr (A Norton Critical Edition)
(x) *Critical Essays on the Poetry of Tennyson* by John Killham (Routledge)
(xi) *Arnold* by Stefan Colline (Oxford)
(xii) *The Imaginative Power: The Poetry of Matthew Arnold* by A.D Wight Culler (New Haven)
(xiii) *Robert Browning's Poetry* by James F. Loucks and Andrew M. Stauffer (A Norton Critical Edition)

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B.A.II (Honours) English
Semester IV
Session 2011-12

Paper-IX: Literature in English (1830-1900)

SCHEME OF EXAMINATION

Max. Marks	:	100 marks
End Semester Exam	:	90 marks
Internal Assessment	:	10 marks
Time	:	3 hours

Texts Prescribed for Detailed Study:

A) Charles Dickens : *A Tale of Two Cities*
B) Thomas Hardy : *The Mayor of Casterbridge*

Non Detailed Study:

Authors

Robert Browning
John Henry Newman
Arthur Clough
D.G.Rossetti
A.C.Swinburne
John Ruskin
R.L.Stevenson
Benjamin Disraeli
J.S.Mill
Charles Darwin
E.B.Browning
George Meredith

Literary works

Thomas Carlyle—*The French Revolution*
W.M.Thackeray—*Vanity Fair*
George Eliot—*Adam Bede*
Emily Bronte—*Wuthering Heights*
Edward Fitzgerald—*The Rubiyat of Omar Khayam*
H Ibsen—*A Doll's House*
Rudyard Kipling—*The Jungle Book*
Arthur Canon Doyle—*Sherlock Holmes*
H.G.Wells— *Time Machine*
Henry James—*The Portrait of a Lady*
Mrs Elizabeth Gaskell—*Life of Charlotte Bronte*
Oscar Wilde—*Mrs Arbuthnot*

Note: The question paper will carry a maximum of 90 marks.

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The paper will have five questions as per details given below

Q.No. 1. Students will be required to write short notes in about 200 words each on any *three* out of given *four* questions from the novels prescribed for detailed study.

3x8=24

Q. Nos. II and III(with internal choice) will be essay type questions set on the novels prescribed for detailed study.

2x15=30

Q.No.IV Students will be required to write notes in about 300 words each on any *two* out of the *three* authors prescribed for non-detailed study.

9x2 = 18

Q.No.V. Students shall be required to write notes in about 150 words each on any *three* out of *four* literary works prescribed for non-detailed study.

6x3 = 18

Recommended Reading:

(i) *English Literature: Its History and Significance* by William J. Long (Indian edition)
(ii) *An Introduction to the Study of English Literature* by W.H.Hudson (Lyall Books Depot)
(iii) *The Short Oxford History of English Literature* by Andrew Sanders (OUP India)
(iv) *The Concise Cambridge History of English Literature* by George Sampson (Revised by R.C. Churchill, Cambridge University Press, New Delhi).
(v) *The New History of English Literature* by Bhim S. Dahiya Delhi: Doaba
(vi) *The Routledge History of Literature in English* by Ronald Carter and John Mcrae (London and New York:Routledge, 2010)
(vii) *Early Victorian Novelists* by David Cecil (Constable, London)
(viii) *A Concise Companion to the Victorian Novel* ed, Francis O' Gorman (Oxford).
(ix) *The Cambridge Companion to the Victorian Novel.*
(x) Charles Dickens's *A Tale of Two Cities* (Viva Modern Critical Interpretation)
(xi) Thomas Hardy's *The Mayor of Casterbridge* (A Norton Critical Edition)

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B.A. II (Honours) English
Semester IV
Session 2011-12

Paper-X : Grammar and Contemporary English Usage

SCHEME OF EXAMINATION

Max. Marks	:	100 marks
End Semester Exam	:	90 marks
Internal Assessment	:	10 marks
Time	:	3 hours

1. Précis
2. Translation
3. Paragraph
4. Grammar:

i) Phrasal verbs with be, do, make, come, bring, keep and let. .

ii) Mood and modality.

iii) Conjunctions: Coordinating and subordinating.

iv Types of Sentences; Simple, Complex and Compound with particular reference to Noun, Relative, Conditional and Coordinate Clauses.

v) Voices and Narration

vi) Various concepts (instructions, requests, invitations, suggestion, prohibition, permission, probability, likelihood, possibility, intention, obligation and necessity, promises, threats, wish, hope, purpose, and result supposition, and ways in which they are expressed.

Note: The question paper will carry a maximum of 90 marks.

The paper will have nine questions as per details given below.

Q. Nos. I, II, III, IV, V and VI (10 Marks each) will be set on items (i) to (vi) given under 4. Grammar (*all these questions will have sufficient choice*). (10x6=60)

Q. No. VII. Students will be required to translate from Hindi to English a short paragraph or around ten isolated sentences. Foreign students will be required to develop a proverb or maxim into a paragraph of 100 words. (8)

Q. No. VIII. Students will be required to compose a paragraph in about 200 words on *one* of the *two* given topics based on current affairs. (10)

Q.No. IX. Students will be required to make a précis of a passage of about 350 words (preferably of a newspaper editorial or some similar contemporary writing) and give it a suitable title. (12)

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Note: In questions on grammar the students may, for example, be asked:

vii) To form sentences of their own using the given material.
viii) To complete the given incomplete sentences.
ix) To fill in the blanks.
x) To re-write the sentences with the desired changes.
xi) To make corrections in the given strings and/or
xii) To pick up the correct answer out of four/five alternatives provided (multiple-choice questions).

All/any of these questions may be based on isolated sentences or short paragraphs.

Books Prescribed

1. Hornby, A.S. *Guide to Patterns and Usage in English* (ELBS)
2. Graver, B.D. *Advanced English Practice*
3. Corder, S. Pit. *An Intermediate English Practice Book (Orient Longman)*

Recommended Readings

1. Vallins, G. D. *Good English: How to Write it* (ELBS)
2. –do- *Better English*
3. Hudson, W.H. *An Introduction to the Study of English Literature*
4. Scaibsbye, Kund *A Modern English Grammar* (O.U.P.)
5. Wood, F.T. *A Remedial English Grammar for Foreign Students*
6. Zandvoort *A Handbook of English Grammar* (ELBS)

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B.A.II
Semester III
2011-12
FUNCTIONAL ENGLISH

SCHEME OF EXAMINATION

Max.Marks : 100 marks
End Semester Exam : 90 marks
Internal Assessment/ 10 marks
Time : 3 hours

Communicative and Writing Skills:

Course Content:

2. Spotting the errors pertaining to nouns, pronouns, adjectives and adverbs, subject verb concord.

3. Lexis : Idioms and phrases, words often confused, one -word substitution, foreign words (A selected list), vocabulary development through synonyms, antonyms, formation of words with affixes.

4. Developing writing skills: Writing small paragraphs on general and current issues, events and slogan writing.

4. Technical Writing:
(a) Drafting memo and circular
(b) e-mail writing
(c) Resume writing, Press Report Writing
(d) Writing Notices, Agendas, Minutes
(e) Note taking

5.Editing Skills : Use of capital letters, punctuation , parentheses, square brackets , ellipsis, apostrophe and quotation marks

Note: The question paper will carry a maximum of 90 marks.

The paper will have five questions as per details given below

1. Students will be required to spot errors in any *eighteen* out of the given *twenty two* sentences 18 marks
2. This question will have sub -parts on all items with internal choice. The candidate will be required to attempt any *sixteen* out of the given *twenty* items. 16 marks

3.(a)Students will be required to write *one* paragraph out of given *four* on general and current issues/events. 10 marks

(b) Students will be required to give a slogan to a paragraph. 10 marks

4. Students will be asked to write on any two of the given four topics under technical writing. 20 marks
5. Students shall be given a paragraph for editing. 16 marks

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Suggested Reading

Communication Skills in English by S D Sharma

Written Communications In English by Sarah Freeman

Corridors to Communication by Ranu Vanikar

Grammar and Composition for Communication by Sagarmal Gupta, Alpana Gupta,(Orient BlackSwan)
Synergy: Communication in English and Study Skills by Board of Editiors
(Orient BlackSwan).

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B.A.II
Semester-IV
2011-2012
FUNCTIONAL ENGLISH

SCHEME OF EXAMINATION

Max. Marks : 100 marks
End Semester Exam : 70 marks
Practical : 20 marks
(Field Work & Practical
Training and Viva)
Internal Assessment/ 10 marks
Time : 3 hours

Course Contents

Unit-I Introducing Communication:

i) Nature and objectives of communication
ii) Process of communication
iii) Principles of effective communication
iv) Barriers to communication: Wrong choice of medium, physical barriers, semantic barriers, sociophysiological barriers

Unit- II Non-verbal Communication:

(i) Body language, appearance, voice, facial expression, posture and gestures
(ii) Functions of non-verbal communication

Unit-III Communication through mass media:

Basic understanding of role of information technology and media:
Newspapers, radio, television, computers, internet and multimedia.

Unit-IV English in Situations:

1. Greetings
2. Receiving and Seeing people off
3. Making complaints
4. Making an appointment
5. Buying at shops
6. Placing orders
7. Offering apologies
8. Consulting a Doctor
9. Making enquiries
10. Conversation on telephone
11. Asking the time : Time expression
12. In the post-office
13. At the bank
14. At the customs
15. At the airport
16. At the travel agency

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17. Booking a room in a hotel
18. Buying guidebook
19. At the temple
20 At the police Station
21. At a dinner party
22. Hiring a taxi
23. At the stock exchange
24. At the chemist
25. At the Restaurant
26. Description of events

(Students shall develop dialogue based paragraphs on the above mentioned situations)

Field Work & Practical Training

i) Visit to various places offering different situations and practicing conversation in actual situations
ii) Students should be asked to write dialogues relating to the situations.

Note: The question paper will carry a maximum of 70 marks.

There will be eight questions in all out of which students shall attempt any five selecting at least one question from every unit. All questions shall be of fourteen marks each

Books Recommended :

English in Situations by R.O.Neill (O.U.P.)

English Conversation Practice by Grant Taylor(Tata Mc Graw Hill Co.)

Developing Communication Skills by Krishna Mohan (Macmillan Indian Ltd.)

A Self Learning Guide to Conversation Practice (with cassettes) by Sasikumar V. and P.V.Dhamija New Delhi: Tata Mg.Graw Hill Co.

Success with English : The Penguin Course Course Book I by Geoffry Bronghton(Peguin Books)

What To Say When Ed. Viola Huggins (BBC London).
Fifty Ways to Improve your Presentation Skills in English by Bob Dignen(Orient Black Swan)

Television and Radio Announcing by Stuart Hyde (Kanishka)

Communication by Larry Barker (Prentice Hall)

Essential of Business Communication by Rajinder Pal and Korahlar
(Sultan Chand & Sons)

Deevloping Reading Skills by Francoise Grellar (Cambridge Uni. Press).

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जुलाई, 2011

बी०ए० द्वितीय वर्ष : तृतीय सेमेस्टर

हिन्दी (अनिवार्य)

पूर्णांक : 90
आंतरिक मूल्यांकन : 10 अंक
समय : 3 घण्टे

निर्धारित पाठ्यपुस्तक

1.	आधुनिक हिन्दी काव्य	35 अंक
2.	जहाज का पंछी	40 अंक
3.	हिन्दी साहित्य का इतिहास	15 अंक

निर्देश :-

1. प्रथम प्रश्न आधुनिक हिन्दी काव्य पाठ्यपुस्तक से व्याख्या के रूप में होगा। इस प्रश्न में चार अवतरण पूछे जाएंगे। परीक्षार्थियों को इनमें से दो की सप्रसंग व्याख्या लिखनी होगी। प्रत्येक व्याख्या दस-दस अंकों की होगी।

2. निर्धारित कवियों के जीवन-परिचय और कवित्व से सम्बन्धित तीन आलोचनात्मक प्रश्न पूछे जायेंगे। परीक्षार्थियों को इनमें से एक प्रश्न का उत्तर देना होगा। यह प्रश्न निर्धारित पाठ्यपुस्तक की अनुशीलनी पर आधरित होगा और पन्द्रह अंकों का होगा।

3. 'जहाज का पंछी' उपन्यास में से चार आलोचनात्मक प्रश्न पूछे जायेंगे। परीक्षार्थियों को जिनमें स दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न बीस-बीस अंकों का होगा। इस पुस्तक से व्याख्या नहीं पूछी जाएगी। 'जहाज का पंछी' के लिए निर्धरित आलोच्य विषय - नामकरण की सार्थकता, तात्त्विक, नायकत्व, चरित्रा-चित्राण, उद्देश्य, मनोवैज्ञानिकता, भाषा-शैली।

4. हिन्दी साहित्य का इतिहास आधुनिक काल से दो प्रश्न पूछे जायेंगे। परीक्षार्थियों को इनमें से एक का उत्तर देना होगा। यह प्रश्न पन्द्रह अंकों का होगा। हिन्दी साहित्य का इतिहास के निर्धरित आलोच्य विषय - आधुनिककाल की परिस्थितियां, भारतेन्दुयुगीन काव्य, द्विवेदीयुगीन काव्य, छायावादी काव्य, प्रगतिवादी काव्य, प्रयोगवादी काव्य, नयी कविता प्रवृत्तियाँ।

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जनवरी, 2012

बी०ए० द्वितीय वर्ष: चतुर्थ सेमेस्टर

हिन्दी (अनिवार्य)

पूर्णांक : 90

आंतरिक मूल्यांकन : 10 अंक

समय : 3 घण्टे

निर्धारित पाठ्यपुस्तक

1.	अभिनव गद्य गरिमा	35 अंक
2.	अंधेर नगरी - भारतेन्दु हरिश्चन्द्र	40 अंक
3.	हिन्दी साहित्य का इतिहास	15 अंक

निर्देश :-

1. 'अभिनव गद्य गरिमा' से व्याख्या के लिए चार अवतरण दिये जाएंगे, जिनमें से परीक्षार्थियों को दो की सप्रसंग व्याख्या करनी होगी। प्रत्येक व्याख्या दस-दस अंकों की होगी। पाठ्यपुस्तक की अनुशीलनी से लगभग 350 शब्दों में तीन प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न पांच-पांच अंकों का होगा।
2. 'अंधेर नगरी' से चार आलोचनात्मक प्रश्न पूछे जायेंगे। परीक्षार्थियों को इनमें से दो प्रश्नों के उत्तर देने होंगे, जो बीस-बीस अंकों के होंगे। इस पुस्तक से आलोचनात्मक प्रश्न ही पूछे जाएंगे।
3. हिन्दी साहित्य का इतिहास आधुनिक काल से दो प्रश्न पूछे जायेंगे। परीक्षार्थियों को इनमें से एक का उत्तर देना होगा। यह प्रश्न पन्द्रह अंकों का होगा। हिन्दी साहित्य का इतिहास के निर्धरित आलोच्य विषय - हिन्दी गद्य, हिन्दी कहानी, हिन्दी उपन्यास, हिन्दी नाटक, हिन्दी निबंध - उद्‌भव और विकास, हिन्दी की नव्यतर विधएं।

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बी०ए० द्वितीय वर्ष : तृतीय सेमेस्टर

हिन्दी (ऐच्छिक)

पूर्णांक : 90
आंतरिक मूल्यांकन : 10 अंक
समय : 3 घण्टे

निर्धारित पाठ्यपुस्तक

1. सुदामाचरित, नरोत्तमदास 50 अंक
2. काव्यशास्त्रा 20 अंक
3. हिन्दी साहित्य का इतिहास 20 अंक

निर्देश :-

1. प्रदत्त चार काव्यांशों में से दो की सप्रसंग व्याख्या करनी होगी। पूछे गए चार समीक्षात्मक प्रश्नों में से दो के उत्तर देने होंगे। व्याख्या के लिए बीस ;10+10द्ध तथा समीक्षात्मक प्रश्नों के लिए तीस (15+15) अंक नियत हैं।
2. काव्यशास्त्रा से निर्धारित चार प्रश्नों ;काव्य की परिभाषा और स्वरूप, काव्य के तत्त्व, काव्य के भेद, महाकाव्य, खण्डकाव्य, गीतिकाव्यद्ध में से दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न दस-दस अंकों का होगा।
3. हिन्दी साहित्य का इतिहास ;आदिकालद्ध से बीस वस्तुनिष्ठ प्रश्न पूछे जायेंगे। प्रत्येक प्रश्न एक-एक अंक का होगा। इसमें कोई विकल्प नहीं होगा।

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जनवरी, 2012

बी०ए० द्वितीय वर्ष : चतुर्थ सेमेस्टर

हिन्दी (ऐच्छिक)

पूर्णांक : 90
आंतरिक मूल्यांकन : 10 अंक
समय : 3 घण्टे

निर्धरित पाठ्यपुस्तक

1. ध्रुवस्वामिनी, जयशंकर प्रसाद 50 अंक
2. काव्यशास्त्रा 20 अंक
3. हिन्दी साहित्य का इतिहास 20 अंक

निर्देश :-

1. प्रदत्त चार गद्यांशों में से दो की सप्रसंग व्याख्या करनी होगी। पूछे गए चार समीक्षात्मक प्रश्नों में से दो के उत्तर देने होंगे। व्याख्या के लिए बीस ;10+10द्ध तथा समीक्षात्मक प्रश्नों के लिए तीस (15+15) अंक नियत हैं।
2. काव्यशास्त्रा से निर्धरित चार प्रश्नों ;काव्य गुण, काव्य दोष, काव्य-प्रयोजन, काव्य हेतु, तीनों शब्द शक्तियांद्ध में से दो प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न दस-दस अंकों का होगा।
3. हिन्दी साहित्य का इतिहास (भक्तिकाल और रीतिकाल) से बीस वस्तुनिष्ठ प्रश्न पूछे जायेंगे। प्रत्येक प्रश्न एक-एक अंक का होगा। इसमें कोई विकल्प नहीं होगा।

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जुलाई, 2011

बी०ए० ऑनर्स (हिन्दी)

तृतीय सेमेस्टर

तृतीय प्रश्न-पत्रा : हिन्दी नाटक साहित्य

पूर्णांक : 90
आंतरिक मूल्यांकन : 10 अंक
समय : 3 घण्टे

पाठ्यपुस्तक

राज्यश्री (नाटक), जयशंकर प्रसाद

निर्देश :-

1. निर्धरित पाठ्यपुस्तक 'राज्यश्री' नाटक में से छह व्याख्याएँ पूछी जाएंगी, जिनमें से तीन की सप्रसंग व्याख्या लिखनी होगी। प्रत्येक व्याख्या 10 अंकों की होगी। नाटक से आठ समीक्षात्मक प्रश्न पूछे जायेंगे, जिनमें से चार प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न पन्द्रह-पन्द्रह अंकों का होगा।

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जुलाई, 2011

बी०ए० ऑनर्स (हिन्दी)

तृतीय सेमेस्टर

चतुर्थ प्रश्न-पत्रा : साहित्यलोचन

पूर्णांक : 90
आंतरिक मूल्यांकन : 10 अंक
समय : 3 घण्टे

निर्धरित पाठ्यक्रम

1. साहित्य का स्वरूप और उद्देश्य, साहित्य के तत्त्व ;भाव, विचार, कल्पना, शैलीद्ध
2. साहित्य रूप : कविता, कहानी, उपन्यास, निबंध, नाटक, आलोचना
3. काव्य की आत्मा ;प्रारम्भिक परिचयद्ध

निर्देश :-

1. पाठ्यक्रम में निर्धरित पूछे गए दस प्रश्नों में से पांच प्रश्नों के उत्तर देने होंगे। सभी प्रश्नों के समान अंक होंगे।

जुलाई, 2011

बी०ए० ऑनर्स (हिन्दी)

तृतीय सेमेस्टर

पंचम प्रश्न-पत्रा : मध्यकालीन काव्य

पूर्णांक : 90
आंतरिक मूल्यांकन : 10 अंक
समय : 3 घण्टे

पाठ्यपुस्तक

काव्य-चन्द्रिका : सम्पादक, डॉ. गणपतिचन्द्र गुप्त

निर्देश :-

1. प्रथम प्रश्न अनिवार्य है। पाठ्यपुस्तक के भक्तिकालीन कवियों के काव्य से छह अवतरणों में से तीन की सप्रसंग व्याख्या करनी होगी। प्रत्येक व्याख्या के लिए बारह अंक होंगे। पाठ्यपुस्तक के भक्तिकालीन कवियों और काव्य से आठ समीक्षात्मक प्रश्न पूछे जाएंगे, जिनमें से चार प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न सोलह अंकों का होगा।

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जनवरी, 2012

बी॰ए॰ ऑनर्स ;हिन्दीद्ध

चतुर्थ सेमेस्टर

तृतीय प्रश्न पत्रा : हिन्दी कहानी साहित्य

पूर्णांक : 90

आंतरिक मूल्यांकन : 10 अंक

समय : 3 घण्टे

पाठ्यपुस्तक

सप्त सरोज ;कहानी संग्रहद्ध, प्रेमचन्द

निर्देश :-

निर्धारित पाठ्यपुस्तक 'सप्तसरोज' ;कहानी संग्रहद्ध में से छह व्याख्याएं पूछी जाएंगी, जिनमें से तीन की सप्रसंग व्याख्या लिखनी होगी। प्रत्येक व्याख्या 10 अंकों की होगी। कहानी संग्रह से आठ समीक्षात्मक प्रश्न पूछे जाएंगे, जिनमें से चार प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न पन्द्रह अंकों का होगा।

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जनवरी, 2012

बी०ए० ऑनर्स ;हिन्दीद्ध

चतुर्थ सेमेस्टर

चतुर्थ प्रश्न पत्रा : साहित्यालोचन

पूर्णांक : 90
आंतरिक मूल्यांकन : 10 अंक
समय : 3 घण्टे

निर्धरित पाठ्यक्रम

1. रसावयव : विभाव, अनुभाव, संचारी, स्थायी, आदिका स्वरूप और विवेचन, रस के भेद।
2. बिम्ब, प्रतीक और मिथक का स्वरूप।
3. यर्थाथवाद
4. स्वच्छन्दतावाद

निर्देश :-

पाठ्यक्रम में निर्धरित पूछे गए दस प्रश्नों में से पांच प्रश्नों के उत्तर देने होंगे। सभी प्रश्नों के अंक समान होंगे।

जनवरी, 2012

बी०ए० ऑनर्स ;हिन्दीद्ध

चतुर्थ सेमेस्टर

पंचम प्रश्न पत्रा : मध्यकालीन काव्य

पूर्णांक : 90
आंतरिक मूल्यांकन : 10 अंक
समय : 3 घण्टे

पाठ्यपुस्तक

काव्य-चन्द्रिका : डॉ. गणपतिचन्द्र गुप्त

निर्देश :-

प्रथम प्रश्न अनिवार्य है। पाठ्यपुस्तक के रीतिकालीन कवियों के काव्य से छह अवतरणों में से तीन की सप्रसंग व्याख्या करनी होगी। प्रत्येक व्याख्या के लिए बारह अंक होंगे। पाठ्यपुस्तक के रीतिकालीन कवियों और काव्य से आठ समीक्षात्मक प्रश्न पूछे जाएंगे, जिनमें से चार प्रश्नों के उत्तर देने होंगे। प्रत्येक प्रश्न सोलह अंकों का होगा।

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B.A Part-II
ਬੀ. ਏ. ਭਾਗ ਦੂਸਰਾ

ਸਮੈਸਟਰ ਤੀਸਰਾ

ਵਿਸ਼ਾ : ਪੰਜਾਬੀ (ਕੰਪਲਸਰੀ)

ਕੁਲ ਨੰਬਰ :100
(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ: 3ਘੰਟੇ

ਸਲੇਬਸ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ	30 ਨੰਬਰ
2. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ	30 ਨੰਬਰ
3. ਇਸ਼ਤਿਹਾਰ ਲੇਖਣ	10 ਨੰਬਰ
4. ਨਿਬੰਧ (ਮੌਜੂਦਾ ਮਸਲਿਆਂ ਨਾਲ ਸਬੰਧਤ)	20 ਨੰਬਰ

ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ

1. ਹਰਜੀਤ ਸਿੰਘ ਅਤੇ ਰਤਨ ਸਿੰਘ ਢਿਲੋਂ (ਸੰਪਾ.), ਕਾਵਿ ਤਰੰਗਾਂ, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ । (ਕੇਵਲ ਇਹ ਕਵੀ ਹੀ ਪੜ੍ਹੇ ਜਾਣਗੇ : ਬੁਲ੍ਹੇ ਸ਼ਾਹ, ਮੁਕਬਲ, ਹਾਸ਼ਮ, ਅਤੇ ਨਜਾਬਤ)

2.ਗੁਰਦੇਵ ਸਿੰਘ ਅਤੇ ਹਰਸ਼ਰਨ ਕੌਰ (ਸੰਪਾ.), ਕਥਾ ਯਾਤਰਾ, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ । (ਕੇਵਲ ਪਹਿਲੀਆਂ ਪੰਜ ਕਹਾਣੀਆਂ ਹੀ ਪੜ੍ਹਣੀਆਂ ਹਨ)

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. **ਕਾਵਿ ਤਰੰਗਾਂ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।' ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਵੀਆਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਵਿਤਾ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਨਾਲ ਸਬੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 400-450 ਸ਼ਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਦਾ ਹੋਵੇਗਾ। ਚਾਰ ਪੈਰੇ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਲਈ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਕਰਨੇ ਹੋਣਗੇ। ਇਹ ਸਵਾਲ 10 (5+5) ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।**

2. ਕਥਾ-ਯਾਤਰਾ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਹਾਣੀਕਾਰਾਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਹਾਣੀ ਪਰੰਪਰਾ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਨਾਲ ਸੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 250-300 ਸ਼ਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ**5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ੇ- ਵਸਤੂ, ਸਾਰ, ਪਾਤਰ ਚਿੱਤਰਣ, ਸਾਹਿਤਕ ਮੁੱਲਾਂਕਣ ਜਾਂ ਅਜਿਹਾ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾ ਸਕਦਾ ਹੈ ਜੋ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀ ਕਹਾਣੀ ਦੇ ਮੁੱਲ ਨੂੰ ਪ੍ਰਗਟ ਕਰਦਾ ਹੋਵੇ। ਅੰਦਰੂਨੀ ਛੂਟ ਨਾਲ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ 15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।**

3. **ਅਖਬਾਰ ਵਿਚ ਇਸ਼ਤਿਹਾਰ ਭੇਜਣ ਲਈ ਦੋ ਵਿਸ਼ੇ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਸ ਵਿਚੋਂ ਇਕ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਸ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੈ।**

4. **ਮੌਜੂਦਾ ਮਸਲਿਆਂ ਨਾਲ ਸਬੰਧਤ ਦੋ ਜਾਂ ਤਿੰਨ ਵਿਸ਼ੇ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਇਸ ਵਿਚੋਂ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ ਉਤੇ ਨਿਬੰਧ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਸ ਸਵਾਲ 20**

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ਨੰਬਰ ਦਾ ਹੈ।

5. ਆਖਰੀ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਵਿਚੋਂ 20 ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ (10 ਕਾਵਿ ਤਰੰਗਾਂ ਅਤੇ 10 ਕਥਾ ਯਾਤਰਾ ਵਿਚੋਂ) ਦਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਚਾਰ ਵਿਕਲਪ ਦਿੱਤੇ ਹੋਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਸਹੀ ਵਿਕਲਪ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਸਵਾਲ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਸਮੈਸਟਰ ਚੌਥਾ

ਵਿਸ਼ਾ : ਪੰਜਾਬੀ (ਕੰਪਲਸਰੀ)

ਕੁਲ ਨੰਬਰ :100 (ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 10)
ਸਮਾਂ: 3ਘੰਟੇ

ਸਲੇਬਸ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ	30 ਨੰਬਰ
2. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ	30 ਨੰਬਰ
3. ਸੱਦਾ ਪੱਤਰ ਲੇਖਣ	15 ਨੰਬਰ
4.ਪੈਰ੍ਹਾ ਰਚਨਾ	15 ਨੰਬਰ

ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ

1. ਹਰਜੀਤ ਸਿੰਘ ਅਤੇ ਰਤਨ ਸਿੰਘ ਢਿਲੋਂ (ਸੰਪਾ.), ਕਾਵਿ ਤਰੰਗਾਂ, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ ।
(ਕੇਵਲ ਇਹ ਕਵੀ ਹੀ ਪੜ੍ਹੇ ਜਾਣਗੇ : ਵਜ਼ੀਦ, ਵਾਰਿਸ ਸ਼ਾਹ, ਕਾਦਰਯਾਰ, ਅਤੇ ਸ਼ਾਹ ਮੁਹੰਮਦ)

2. ਗੁਰਦੇਵ ਸਿੰਘ ਅਤੇ ਹਰਸ਼ਰਨ ਕੌਰ (ਸੰਪਾ.), ਕਥਾ ਯਾਤਰਾ, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ ।
(ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ ਵਿਚ ਪ੍ਰਾਪਤ ਛੇ ਨੰਬਰ ਤੋਂ ਦਸ ਨੰਬਰ ਤੱਕ ਮਿਲਦੀਆਂ ਹੀ ਪੜ੍ਹਣੀਆਂ ਹਨ)

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. ਕਾਵਿ ਤਰੰਗਾਂ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।' ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਵੀਆਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਵਿਤਾ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਨਾਲ ਸਬੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 400-450 ਸ਼ਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਦਾ ਹੋਵੇਗਾ। ਚਾਰ ਪੈਰੇ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਲਈ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਕਰਨੇ ਹੋਣਗੇ। ਇਹ ਸਵਾਲ 10 (5+5) ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

2. ਕਥਾ-ਯਾਤਰਾ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਹਾਣੀਕਾਰਾਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਹਾਣੀ ਪਰੰਪਰਾ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਨਾਲ ਸੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 250-300 ਸ਼ਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ੇ- ਵਸਤੂ, ਸਾਰ, ਪਾਤਰ ਚਿੱਤਰਣ, ਸਾਹਿਤਕ ਮੁੱਲਾਂਕਣ ਜਾਂ ਅਜਿਹਾ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾ ਸਕਦਾ ਹੈ ਜੋ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀ ਕਹਾਣੀ ਦੇ ਮੁੱਲ ਨੂੰ ਪ੍ਰਗਟ ਕਰਦਾ ਹੋਵੇ। ਅੰਦਰੂਨੀ ਛੂਟ ਨਾਲ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ 15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

3. ਦੋ ਵਿਸ਼ੇ ਸੱਦਾ ਪੱਤਰ ਲਿਖਣ ਸਬੰਧੀ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਸ ਵਿਚ ਇਕ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ 15 ਨੰਬਰ ਦਾ ਹੈ।

4. ਕਿਸੇ ਖਾਸ ਮਸਲੇ ਨਾਲ ਸਬੰਧਤ ਦੋ ਜਾਂ ਤਿੰਨ ਵਿਸ਼ੇ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਇਸ ਵਿਚੋਂ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ ਉਤੇ ਪੈਰ੍ਹਾ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਸ ਸਵਾਲ 15 ਨੰਬਰ ਦਾ ਹੈ।

5. ਆਖਰੀ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਵਿਚੋਂ 20 ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ (10 ਕਾਵਿ ਤਰੰਗਾਂ ਅਤੇ 10 ਕਥਾ ਯਾਤਰਾ ਵਿਚੋਂ) ਦਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਚਾਰ ਵਿਕਲਪ ਦਿੱਤੇ ਹੋਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਸਹੀ ਵਿਕਲਪ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਸਵਾਲ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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B.A Part-II
ਬੀ. ਏ. ਭਾਗ ਦੂਸਰਾ

ਸਮੈਸਟਰ ਤੀਸਰਾ

ਵਿਸ਼ਾ : ਪੰਜਾਬੀ (ਇਲੈਕਟਿਵ)

ਕੁਲ ਨੰਬਰ :100
(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 10)
ਸਮਾਂ: 3ਘੰਟੇ

ਸਲੇਬਸ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ	25 ਨੰਬਰ
2. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ	25 ਨੰਬਰ
3. ਨਿਬੰਧ	10 ਨੰਬਰ
3. ਛੰਦ (ਦੋਹਰਾ, ਸੋਰਠਾ, ਕੋਰੜਾ, ਸਿਰਖੰਡੀ, ਬੈਂਤ, ਸਵਈਆ, ਕਬਿੱਤ, ਚੌਪਾਈ ਅਤੇ ਡਿਉਢਾ)	10 ਨੰਬਰ
4. ਸ਼ਬਦ ਜੁੱਟ	10 ਨੰਬਰ
4. ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ (100 ਸ਼ਬਦ)	10 ਨੰਬਰ

<u>ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ</u>

1. ਹਰਜੀਤ ਸਿੰਘ ਅਤੇ ਰਤਨ ਸਿੰਘ ਢਿਲੋਂ (ਸੰਪਾ.), ਕਾਵਿ ਤਰੰਗਾਂ, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ । (ਕੇਵਲ ਇਹ ਕਵੀ ਹੀ ਪੜ੍ਹੇ ਜਾਣਗੇ : ਬੁਲ੍ਹੇ ਸ਼ਾਹ, ਮੁਕਬਲ, ਹਾਸ਼ਮ, ਨਜਾਬਤ ਅਤੇ ਅਗਰਾ)

2.ਗੁਰਦੇਵ ਸਿੰਘ ਅਤੇ ਹਰਸ਼ਰਨ ਕੌਰ (ਸੰਪਾ.), ਕਥਾ ਯਾਤਰਾ, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ ।

ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ :

1	**Abstract**	ਸੂਖਮ
2	**Absurd**	ਊਲ ਜਲੂਲ
3	**Accent**	ਸੁਰਦਬਾ/ਲਹਿਜ਼ਾ
4	**Actor**	ਅਦਾਕਾਰ
5	**Adoption**	ਅਪਨਾਉਣਾ
6	**Adaptation**	ਅਨੁਕੂਲਤਾ/ਰੂਪਾਂਤ੍ਰਣ
7	**Aesthetic**	ਸੁਹਜ
8	**Aesthetics**	ਸੁਹਜ ਸ਼ਾਸਤਰ

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9	**Analysis**	ਵਿਸਲਲੇਸ਼ਣ
10	**Annotation**	ਟੀਕਾ
11	**Anthologist**	ਸੰਗ੍ਰਹਿ ਕਰਤਾ
12	**Anthology**	ਸੰਗ੍ਰਹਿ
13	**Aptitude**	ਰੁਚੀ
14	**Architect**	ਸ਼ਿਲਪਕਾਰ
15	**Artistically**	ਕਲਾ ਪੱਖ ਤੋਂ
16	**Atheism**	ਨਾਸਤਿਕਤਾ
17	**Assonance**	ਸਮਾਨਤਾ
18	**Auditorium**	ਸ਼ਰੋਤਾ-ਭਵਨ
19	**Autobiography**	ਸਵੈਜੀਵਨੀ
20	**Ballad**	ਗਾਥਾ
21	**Bibliography**	ਪੁਸਤਕ ਸੂਚੀ
22	**Biography**	ਜੀਵਨੀ
23	**Blank verse**	ਮੁਕਤ ਕਾਵਿ
24	**Brevity**	ਸੰਖੇਪਤਾ
25	**Brochure**	ਪੁਸਤਿਕਾ
26	**Catharsis**	ਭਾਵ ਵਿਰੇਚਨ
27	**Characterization**	ਪਾਤਰ ਚਿੱਤਰਣ
28	**Chorus**	ਸਮੂਹ ਗੀਤ
29	**Chronology**	ਕਾਲਕ੍ਰਮ
30	**Clarification**	ਸਪੱਸ਼ਟੀਕਰਣ
31	**Climax**	ਸਿਖਰ
32	**Comedy**	ਸੁਖਾਂਤ
33	**Commentary**	ਭਾਸ਼ਣ
34	**Communism**	ਸਾਮਵਾਦ
35	**Concept**	ਸੰਕਲਪ
36	**Conflict**	ਦਵੰਦ

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37	**Consonant**	ਵਿਅੰਜਨ
38	**Contemporary**	ਸਮਕਾਲੀ
39	**Content**	ਵਸਤੂ
40	**Criterion**	ਕਸੌਟੀ
41	**Critic**	ਆਲੋਚਕ
42	**Critical**	ਆਲੋਚਨਾਤਮਿਕ
43	**Cynicism**	ਸਨਕੀ ਹੋਣਾ
44	**Definition**	ਪਰਿਭਾਸ਼ਾ
45	**Dialect**	ਉਪਭਾਸ਼ਾ
46	**Dialogue**	ਵਾਰਤਾਲਾਪ
47	**Director**	ਨਿਰਦੇਸ਼ਕ
48	**Drama**	ਨਾਟਕ
49	**Dramatist**	ਨਾਟਕਕਾਰ
50	**Duet song**	ਦੋਗਾਣਾ
51	**Ego**	ਹਉਮੈ
52	**Elegy**	ਸ਼ੋਕ ਗੀਤ
53	**Element**	ਤੱਤ
54	**Eloquence**	ਖੁਸ਼-ਬਿਆਨੀ
55	**Emotional**	ਭਾਵੁਕ
56	**Epic**	ਮਹਾਂਕਾਵਿ
57	**Essay**	ਨਿਬੰਧ
58	**Etymology**	ਨਿਰੁਕਤ
59	**Example**	ਮਿਸਾਲ/ਉਦਾਹਰਣ
60	**Existentialism**	ਹੋਂਦਵਾਦ/ਅਸਤਿਤਵਵਾਦ
61	**Expression**	ਪ੍ਰਗਟਾਅ
62	**Expressionism**	ਅਭਿਵਿਅੰਜਨਵਾਦ
63	**Facility**	ਸਹੂਲਤ
64	**Fantasy**	ਕਲਪਨਾ
65	**Fatalism**	ਭਾਗਵਾਦ

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66	**Farce**	ਸਾਂਗ
67	**Feudalism**	ਜਾਗੀਰਦਾਰੀ
68	**Fiction**	ਗਲਪ
69	**Figure of speech**	ਅਲੰਕਾਰ
70	**Folklore**	ਲੋਕਧਾਰਾ
71	**Folksong**	ਲੋਕਗੀਤ
72	**Free verse**	ਮੁਕਤਕਾਵਿ
73	**Form**	ਰੂਪ
74	**Genius**	ਪ੍ਰਤਿਭਾਸ਼ੀਲ
75	**Genealogy**	ਵੰਸ਼ਾਵਲੀ
76	**Glossary**	ਸ਼ਬਦ ਸੂਚੀ
77	**Hereditary**	ਪਿਤਾ ਪੁਰਖੀ
78	**Histrionics**	ਸਵਾਂਗ ਕਲਾ
79	**Humanism**	ਮਾਨਵਵਾਦ
80	**Idea**	ਵਿਚਾਰ
81	**Idealism**	ਵਿਚਾਰਵਾਦ/ਆਦਰਸ਼ਵਾਦ
82	**Ideology**	ਵਿਚਾਰਧਾਰਾ
83	**Illusion**	ਭਰਮ
84	**Imagery**	ਬਿੰਬਾਵਲੀ
85	**Imagination**	ਕਲਪਨਾ
86	**Imitation**	ਨਕਲ
87	**Impressionism**	ਪ੍ਰਭਾਵਵਾਦ
88	**Impulse**	ਮਨੋ ਤਰੰਗ
89	**Individual**	ਵਿਅਕਤੀ
90	**Individualism**	ਵਿਅਕਤੀਵਾਦ
91	**Inferiority complex**	ਹੀਣ ਭਾਵ
92	**Instinct**	ਪ੍ਰਵਿਤੀ
93.	**Journalism**	ਪੱਤਰਕਾਰੀ
94	**Legend**	ਦੰਤਕਥਾ

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95	**Liberalism**	ਉਦਾਰਵਾਦ
96	**Linguistics**	ਭਾਸ਼ਾ ਵਿਗਿਆਨ
97	**Linguistics continuity**	ਭਾਸ਼ਾ ਦੀ ਅਖੰਡਤਾ
98	**Literal**	ਸ਼ਾਬਦਿਕ
99	**Literature**	ਸਾਹਿਤ
100	**Lyrical Poetry**	ਸਰੋਦੀ ਕਾਵਿ

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. ਕਾਵਿ ਤਰੰਗਾਂ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਵੀਆਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਵਿਤਾ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਨਾਲ ਸਬੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 250-300 ਸ਼ਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਦਾ ਹੋਵੇਗਾ। ਚਾਰ ਪੈਰ੍ਹੇ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਲਈ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਕਰਨੇ ਹੋਣਗੇ। ਇਹ ਸਵਾਲ 10 (5+5) ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
2. ਕਥਾ ਯਾਤਰਾ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਹਾਣੀਕਾਰਾਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਹਾਣੀ ਪਰੰਪਰਾ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਨਾਲ ਸੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 250-300 ਸ਼ਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ੇ- ਵਸਤੂ, ਸਾਰ, ਪਾਤਰ ਚਿੱਤਰਣ, ਸਾਹਿਤਕ ਮੁੱਲਾਂਕਣ ਜਾਂ ਅਜਿਹਾ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾ ਸਕਦਾ ਹੈ ਜੋ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀ ਕਹਾਣੀ ਦੇ ਮੁੱਲ ਨੂੰ ਪ੍ਰਗਟ ਕਰਦਾ ਹੋਵੇ। ਅੰਦਰੂਨੀ ਛੂਟ ਨਾਲ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
3. ਆਮ ਜਾਣਕਾਰੀ ਨਾਲ ਸਬੰਧਤ ਤਿੰਨ ਜਾਂ ਚਾਰ ਨਿਬੰਧ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਸ ਵਿਚੋਂ ਇਕ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ 10 ਨੰਬਰ ਦਾ ਹੈ।
4. ਸਲੇਬਸ ਵਿਚ ਨਿਰਧਾਰਿਤ ਕੀਤੇ ਗਏ ਛੰਦਾਂ ਵਿਚੋਂ ਕੋਈ ਚਾਰ ਛੰਦ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੇ ਕੋਈ ਦੋ ਛੰਦਾਂ ਦੇ ਲੱਛਣਾਂ ਨੂੰ ਉਦਾਹਰਣਾਂ ਸਹਿਤ ਕਰਨਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ 10 (5+5) ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ।
5. ਵਿਆਕਰਣ ਵਾਲ਼ੇ ਪ੍ਰਸ਼ਨ ਵਿਚ 10 ਨੰਬਰਾਂ ਦੇ ਸ਼ਬਦ-ਜੁੱਟ ਪੁੱਛੇ ਜਾਣਗੇ।
6. ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ ਵਿਚੋਂ 10 ਅੰਗਰੇਜ਼ੀ ਸ਼ਬਦਾਂ ਦੇ ਸਮਾਨਾਰਥੀ ਪੰਜਾਬੀ ਸ਼ਬਦ ਲਿਖਣੇ ਹੋਣਗੇ। ਘੱਟੋ ਘੱਟ 15 ਸ਼ਬਦ ਦਿੱਤੇ ਜਾਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ ਵੀ 10 ਨੰਬਰ ਦਾ ਹੈ।
7. ਆਖਰੀ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਵਿਚੋਂ 20 ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ (10 ਕਾਵਿ ਤਰੰਗਾਂ ਅਤੇ 10 ਕਥਾ ਯਾਤਰਾ ਵਿਚੋਂ) ਦਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਚਾਰ ਵਿਕਲਪ ਦਿੱਤੇ ਹੋਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਸਹੀ ਵਿਕਲਪ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਸਵਾਲ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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B.A Part-II

ਬੀ. ਏ. ਭਾਗ ਦੂਸਰਾ

ਸਮੈਸਟਰ ਚੌਥਾ

ਵਿਸ਼ਾ : ਪੰਜਾਬੀ (ਇਲੈਕਟਿਵ)

ਕੁਲ ਨੰਬਰ :100
(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ: 3ਘੰਟੇ

ਸਲੇਬਸ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ	25 ਨੰਬਰ
2.ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (1701 ਤੋਂ 1850 ਤੱਕ)	25 ਨੰਬਰ
3. ਪੈਰ੍ਹਾ ਲਿਖਣਾ	10 ਨੰਬਰ
4. ਅਲੰਕਾਰ (ਉਪਮਾ, ਰੂਪਕ, ਅਤਿ ਕਥਨੀ, ਦ੍ਰਿਸ਼ਟਾਂਤ, ਵਿਰੋਧ, ਅਨੁਪ੍ਰਾਸ, ਵਕ੍ਰੋਕਤੀ,ਪ੍ਰਢੋਕਤੀ, ਲੇਸ਼ ਅਤੇ ਲੋਕੋਕਤੀ)	10 ਨੰਬਰ
5. ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਲਈ ਇਕ ਸ਼ਬਦ	10 ਨੰਬਰ
6. ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ	10 ਨੰਬਰ

ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ

1. ਹਰਜੀਤ ਸਿੰਘ ਅਤੇ ਰਤਨ ਸਿੰਘ ਢਿਲੋਂ (ਸੰਪਾ.), ਕਾਵਿ ਤਰੰਗਾਂ, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ । (ਕੇਵਲ ਇਹ ਕਵੀ ਹੀ ਪੜ੍ਹੇ ਜਾਣਗੇ : ਵਜ਼ੀਦ, ਵਾਰਿਸ ਸ਼ਾਹ, ਕਾਦਰਯਾਰ, ਪੀਰ ਮੁਹੰਮਦ ਅਤੇ ਸ਼ਾਹ ਮੁਹੰਮਦ)

2.ਡਾ. ਰਤਨ ਸਿੰਘ ਜੱਗੀ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ :

1.	**Morphology**	ਰੂਪ ਵਿਗਿਆਨ, ਭਾਵਾਂਸ਼ ਵਿਗਿਆਨ
2.	**Maxim**	ਕਹਾਵਤ
3.	**Melodious**	ਮਧੁਰ
4.	**Metaphor**	ਰੂਪਕ
5.	**Metaphysical**	ਪਰਾਭੌਤਿਕ
6.	**Meter**	ਛੰਦ
7.	**Modernity**	ਆਧੁਨਿਕਤਾ
8.	**Modernism**	ਆਧੁਨਿਕਤਾਵਾਦ
9.	**Monologue**	ਮਨਵਜਨ

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10.	**Mystical**	ਰੱਹਸਮਈ
11.	**Mysticism**	ਰੱਹਸਵਾਦ
12.	**Mythology**	ਮਿਥਿਹਾਸ
13.	**Nationalism**	ਰਾਸ਼ਟਰਵਾਦ
14.	**Naturalism**	ਪ੍ਰਕਿਰਤਿਵਾਦ
15.	**Note**	ਟਿੱਪਣੀ
16.	**Novelist**	ਨਾਵਲਕਾਰ
17.	**Novelette**	ਛੋਟਾ ਨਾਵਲ
18.	**Obsolete**	ਅਪ੍ਰਚਲਿਤ
19.	**Obscene**	ਅਸ਼ਲੀਲ
20.	**Opera**	ਸੰਗੀਤ ਨਾਟਕ
21.	**Optimist**	ਆਸ਼ਾਵਾਦੀ
22.	**Originality**	ਮੌਲਿਕਤਾ
23.	**Orthodox**	ਕੱਟੜਪੰਥੀ
24.	**Paradox**	ਵਿਰੋਧਾਭਾਸ
25.	**Paragraph**	ਪੈਰਾ
26.	**Parody**	ਨਕਲ,ਵਿਅੰਗਕਾਵਿ
27.	**Pathetic**	ਭਾਵ ਭਰਮ
28.	**Pathos**	ਕਰੁਣਾ ਰਸ
29.	**Personality**	ਵਿਅਕਤੀਤਵ
30.	**Personification**	ਸਮੂਰਤੀਕਰਨ
31.	**Pessimist**	ਨਿਰਾਸ਼ਾਵਾਦੀ
32.	**Philologist**	ਭਾਸ਼ਸਾਸ਼ਤਰੀ
33.	**Phoneme**	ਧੁਨੀਗ੍ਰਾਮ
34.	**Phontic Law**	ਧੁਨਨਿਯਮ
35.	**Phonology**	ਧੁਨਵਿਗਿਆਨ
36.	**Playwright**	ਨਾਟਕਕਾਰ
37.	**Poetical insight**	ਕਾਵਿਕ ਸੂਝ
38.	**Poetical Effect**	ਕਾਵਿਕ ਪ੍ਰਭਾਵ

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39.	**Polyglot**	ਬਹੁਭਾਸ਼ੀ
40.	**Suffix**	ਪਿੱਛੇਤਰ
41.	**Prefix**	ਅਗੇਤਰ
42.	**Progressive**	ਪ੍ਰਗਤੀਸ਼ੀਲ/ ਅਗਾਂਹਵਧੂ
43.	**Prose**	ਵਾਰਤਕ
44.	**Producer**	ਨਿਰਮਾਤਾ
45.	**Production**	ਪੇਸ਼ਕਾਰੀ
46.	**Prosody**	ਪਿੰਗਲ
47.	**Psycho-Analysis**	ਮਨੋਵਿਸ਼ਲੇਸ਼ਣ
48.	**Realism**	ਯਥਾਰਥਵਾਦ
49.	**Rhetoric**	ਅਲੰਕਾਰ ਸ਼ਾਸਤਰ
50.	**Rhyme**	ਬਾਲਗੀਤ
51.	**Rhythm**	ਲੈਅ
52.	**Romanticism**	ਰੁਮਾਂਸਵਾਦ
53.	**Satire**	ਵਿਅੰਗ
54.	**Skepticism**	ਸੰਕਾਵਾਦ
55.	**Script**	ਲਿਪੀ
56.	**Secularism**	ਧਰਮ੍ ਨਿਰਪੇਖਤਾ
57.	**Semantics**	ਅਰਥ ਵਿਗਿਆਨ
58.	**Sensibility**	ਸੰਵੇਦਨਾ
59.	**Sensitivity**	ਸੰਵੇਦਨਸ਼ੀਲਤਾ
60.	**Smile**	ਉਪਮਾ
61.	**Size**	ਆਕਾਰ
62.	**Socialism**	ਸਮਾਜਵਾਦ
63.	**Soliloquy**	ਇਕੋਵਚਨ
64.	**Spiritualism**	ਅਧਿਆਤਮਵਾਦ
65.	**Stage**	ਰੰਗ ਮੰਚ
66.	**Stream of consciousness**	ਚੇਤਨਾ ਪ੍ਰਵਾਹ

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67.	**Structure**	ਸੰਰਚਨਾ/ ਬਣਤਰ
68.	**Style**	ਸ਼ੈਲੀ
69.	**Sublime**	ਉਦਾਤ
70.	**Syllable**	ਅੱਖਰ
71.	**Symbolism**	ਪ੍ਰਤੀਕਵਾਦ
72.	**Synopsis**	ਆਰਜ਼ੀ ਰੂਪ ਰੇਖਾ
73.	**Syntax**	ਵਾਕ ਰਚਨਾ/ ਵਾਕ ਵਿਚਾਰ
74.	**Synthesis**	ਸੰਸਲੇਸ਼ਣ
75.	**Tactile image**	ਸਪਰ-ਬਿੰਬ
76.	**Technique**	ਵਿਧੀ
77.	**Terminology**	ਪਾਰਿਭਾਣਿਕ ਸ਼ਬਦਾਵਲੀ
78.	**Tradition**	ਪਰੰਪਰਾ
79.	**Traditionalism**	ਪਰੰਪਰਾਵਾਦ
80.	**Translation**	ਅਨੁਵਾਦ
81.	**Treatise**	ਨਿਬੰਧ
82.	**Unities**	ਏਕਤਾਵਾਂ
83.	**Unity of Action**	ਕਾਰਹ ਦੀ ਏਕਤਾ
84.	**Unity of Impression**	ਪ੍ਰਭਾਵ ਦੀ ਏਕਤਾ
85.	**Unity of Space**	ਸਥਾਨ ਦੀ ਏਕਤਾ
86.	**Unity of Time**	ਸਮੇਂ ਦੀ ਏਕਤਾ
87.	**Utilitarianism**	ਉਪਯੋਗਤਾਵਾਦ
88.	**Verse**	ਪਦ
89.	**Versatile**	ਸਰਬਾਗੀ
90.	**Villain**	ਖਲਨਾਇਕ
91.	**Vision‘**	ਅੰਤਰ ਦ੍ਰਿਸ਼ਟੀ
92.	**Visual Image**	ਦ੍ਰਿਸ਼ਟੀ ਪਰਤ, ਬਿੰਬ
93.	**Vocabulary**	ਸ਼ਬਦ ਕੋਸ਼
94.	**Vowel**	ਸਵਰ

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95. Vulgarity ਅਸ਼ਲੀਲਤਾ

96. Work ਕਾਰਜ, ਕੰਮ, ਰਚਨਾ

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. ਕਾਵਿ ਤਰੰਗਾਂ ਵਿਚੋਂ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ।' ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਕਵੀਆਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਪੰਜਾਬੀ ਕਵਿਤਾ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਨਾਲ ਸਬੰਧਤ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ ਇਸ ਤਰ੍ਹਾਂ ਪੁੱਛਿਆ ਜਾਵੇ ਕਿ ਵਿਦਿਆਰਥੀ ਇਸ ਦਾ ਜਵਾਬ ਸੰਖੇਪ ਰੂਪ ਵਿਚ ਲਗਭਗ 250-300 ਸ਼ਬਦਾਂ ਦੇ ਸਕੇ। ਇਹ ਸਵਾਲ 5 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ। ਦੂਸਰਾ ਸਵਾਲ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਦਾ ਹੋਵੇਗਾ। ਚਾਰ ਪੈਰ੍ਹੇ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਲਈ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਕਰਨੇ ਹੋਣਗੇ। ਇਹ ਸਵਾਲ 10 (5+5) ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
2. ਦੋ ਨਿਬੰਧ ਮੂਲਕ ਪ੍ਰਸ਼ਨ ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਇਤਿਹਾਸ (1700-1850 ਤੱਕ) ਸੰਬੰਧੀ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੇ ਦੋਹਾਂ ਵਿਚੋਂ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਹੈ। ਇਸ ਵਿਚ ਪ੍ਰਸ਼ਨ ਸਿਰਫ਼ ਸਾਹਿਤਕ ਧਾਰਾਵਾਂ ਨਾਲ਼ ਸੰਬੰਧਿਤ ਹੀ ਪੁੱਛੇ ਜਾਣਗੇ (ਭਾਵ ਕਿਸੇ ਇਕ ਵਿਅਕਤੀਗਤ ਲੇਖਕ ਬਾਰੇ ਪ੍ਰਸ਼ਨ ਨਹੀਂ ਪੁੱਛਿਆ ਜਾਵੇਗਾ)। ਇਹ ਪ੍ਰਸ਼ਨ 15 ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ।
3. ਆਮ ਜਾਣਕਾਰੀ ਨਾਲ ਸਬੰਧਤ ਤਿੰਨ ਜਾਂ ਚਾਰ ਵਿਸ਼ੇ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਸ ਵਿਚੋਂ ਇਕ ਦਾ 400-500 ਸ਼ਬਦਾਂ ਦਾ ਪੈਰ੍ਹਾ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ 10 ਨੰਬਰ ਦਾ ਹੈ।
4. ਸਲੇਬਸ ਵਿਚ ਨਿਰਧਾਰਿਤ ਕੀਤੇ ਗਏ ਛੰਦਾਂ ਵਿਚੋਂ ਕੋਈ ਚਾਰ ਛੰਦ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੇ ਕੋਈ ਦੋ ਛੰਦਾਂ ਦੇ ਲੱਛਣਾਂ ਉਦਾਹਰਣਾਂ ਸਹਿਤ ਕਰਨੇ ਹੋਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ 10 (5+5) ਅੰਕਾਂ ਦਾ ਹੋਵੇਗਾ।
5. ਵਿਆਕਰਣ ਵਾਲ਼ੇ ਪ੍ਰਸ਼ਨ ਵਿਚ 10 ਨੰਬਰਾਂ ਦੇ ਬਹੁਤੇ ਸ਼ਬਦਾਂ ਲਈ ਇਕ ਸ਼ਬਦ ਪੁੱਛੇ ਜਾਣਗੇ।
6. ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ ਵਿਚੋਂ 10 ਅੰਗਰੇਜ਼ੀ ਸ਼ਬਦਾਂ ਦੇ ਸਮਾਨਾਰਥੀ ਸ਼ਬਦ ਲਿਖਣੇ ਹੋਣਗੇ। ਘੱਟੋ ਘੱਟ 15 ਸ਼ਬਦ ਦਿੱਤੇ ਜਾਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ ਵੀ 10 ਨੰਬਰ ਦਾ ਹੈ।
7. ਆਖਰੀ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਵਿਚੋਂ 20 ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ (10 ਕਾਵਿ ਤਰੰਗਾਂ ਅਤੇ 10 ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ ਵਿਚੋਂ) ਦਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਚਾਰ ਵਿਕਲਪ ਦਿੱਤੇ ਹੋਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਸਹੀ ਵਿਕਲਪ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਸਵਾਲ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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B.Sc. Part-II
ਬੀ.ਐਸ.ਸੀ. ਭਾਗ ਦੂਸਰਾ

ਸਮੈਸਟਰ ਤੀਸਰਾ

ਵਿਸ਼ਾ : ਪੰਜਾਬੀ (ਕੰਪਲਸਰੀ)

ਕੁਲ ਨੰਬਰ : 50
(ਪੇਪਰ : 45 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 05)
ਸਮਾਂ: 3ਘੰਟੇ

ਸਲੇਬਸ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ	15 ਨੰਬਰ
2. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ	15 ਨੰਬਰ
3. ਇਸ਼ਤਿਹਾਰ ਲੇਖਣ	05 ਨੰਬਰ
4. ਨਿਬੰਧ (ਮੌਜੂਦਾ ਮਸਲਿਆਂ ਨਾਲ ਸਬੰਧਤ)	10 ਨੰਬਰ

ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ

1. ਹਰਜੀਤ ਸਿੰਘ ਅਤੇ ਰਤਨ ਸਿੰਘ ਢਿਲੋਂ (ਸੰਪਾ.), **ਕਾਵਿ ਤਰੰਗਾਂ**, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ ।
(ਕੇਵਲ ਇਹ ਕਵੀ ਹੀ ਪੜ੍ਹੇ ਜਾਣਗੇ : ਬੁਲ੍ਹੇ ਸ਼ਾਹ, ਮੁਕਬਲ, ਹਾਸ਼ਮ, ਅਤੇ ਨਜਾਬਤ)

2.ਗੁਰਦੇਵ ਸਿੰਘ ਅਤੇ ਹਰਸ਼ਰਨ ਕੌਰ (ਸੰਪਾ.), **ਕਥਾ ਯਾਤਰਾ**, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ ।
(ਕੇਵਲ ਪਹਿਲੀਆਂ ਪੰਜ ਕਹਾਣੀਆਂ ਹੀ ਪੜ੍ਹਣੀਆਂ ਹਨ)

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. **ਕਾਵਿ ਤਰੰਗਾਂ** ਵਿਚੋਂ ਚਾਰ ਪੈਰੇ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਲਈ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਕਰਨੇ ਹੋਣਗੇ। ਇਹ ਸਵਾਲ 10 (5+5) ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

2. **ਕਥਾ-ਯਾਤਰਾ** ਵਿਚੋਂ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ੇ- ਵਸਤੂ, ਸਾਰ, ਪਾਤਰ ਚਿੱਤਰਣ, ਸਾਹਿਤਕ ਮੁੱਲਾਂਕਣ ਜਾਂ ਅਜਿਹਾ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾ ਸਕਦਾ ਹੈ ਜੋ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀ ਕਹਾਣੀ ਦੇ ਮੁੱਲ ਨੂੰ ਪ੍ਰਗਟ ਕਰਦਾ ਹੋਵੇ। ਅੰਦਰੂਨੀ ਛੂਟ ਨਾਲ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

3. ਅਖਬਾਰ ਵਿਚ ਇਸ਼ਤਿਹਾਰ ਭੇਜਣ ਲਈ ਦੋ ਵਿਸ਼ੇ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਸ ਵਿਚੋਂ ਇਕ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਸ ਸਵਾਲ 05 ਨੰਬਰ ਦਾ ਹੈ।

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4. ਮੌਜੂਦਾ ਮਸਲਿਆਂ ਨਾਲ ਸਬੰਧਤ ਦੋ ਜਾਂ ਤਿੰਨ ਵਿਸ਼ੇ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਇਸ ਵਿਚੋਂ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ ਉੱਤੇ ਨਿਬੰਧ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਸ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੈ।

5. ਆਖਰੀ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਵਿਚੋਂ 10 ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨਾਂ (05 **ਕਾਵਿ ਤਰੰਗਾਂ** ਅਤੇ 05 **ਕਥਾ ਯਾਤਰਾ** ਵਿਚੋਂ) ਦਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਚਾਰ ਵਿਕਲਪ ਦਿੱਤੇ ਹੋਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਸਹੀ ਵਿਕਲਪ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਸਮੈਸਟਰ ਚੌਥਾ

ਵਿਸ਼ਾ : ਪੰਜਾਬੀ (ਕੰਪਲਸਰੀ)

ਕੁਲ ਨੰਬਰ : 50
(ਪੇਪਰ : 45 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ : 05)
ਸਮਾਂ: 3ਘੰਟੇ

ਸਲੇਬਸ ਦੀ ਰੂਪ ਰੇਖਾ

1. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਾਵਿ ਸੰਗ੍ਰਹਿ	15 ਨੰਬਰ
2. ਚੋਣਵਾਂ ਪੰਜਾਬੀ ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ	15 ਨੰਬਰ
3. ਸੱਦਾ ਪੱਤਰ ਲੇਖਣ	05 ਨੰਬਰ
5.ਪੈਰ੍ਹਾ ਰਚਨਾ	10 ਨੰਬਰ

ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ

1. ਹਰਜੀਤ ਸਿੰਘ ਅਤੇ ਰਤਨ ਸਿੰਘ ਢਿਲੋਂ (ਸੰਪਾ.), **ਕਾਵਿ ਤਰੰਗਾਂ**, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ ।
(ਕੇਵਲ ਇਹ ਕਵੀ ਹੀ ਪੜ੍ਹੇ ਜਾਣਗੇ : ਵਜ਼ੀਦ, ਵਾਰਿਸ ਸ਼ਾਹ, ਕਾਦਰਯਾਰ ਅਤੇ ਸ਼ਾਹ ਮੁਹੰਮਦ)

2. ਗੁਰਦੇਵ ਸਿੰਘ ਅਤੇ ਹਰਸ਼ਰਨ ਕੌਰ (ਸੰਪਾ.), **ਕਥਾ ਯਾਤਰਾ**, ਕੁਰੂਕਸ਼ੇਤਰ ਯੂਨੀਵਰਸਿਟੀ ਕੁਰੂਕਸ਼ੇਤਰ ।
(ਕਹਾਣੀ ਸੰਗ੍ਰਹਿ ਵਿਚ ਪ੍ਰਾਪਤ ਛੇ ਨੰਬਰ ਤੋਂ ਦਸ ਨੰਬਰ ਤੱਕ ਮਿਲਦੀਆਂ ਕਹਾਣੀਆਂ ਹੀ ਪੜ੍ਹਣੀਆਂ ਹਨ)

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. **ਕਾਵਿ ਤਰੰਗਾਂ** ਵਿਚੋਂ ਚਾਰ ਪੈਰੇ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਲਈ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਕੋਈ ਦੋ ਕਰਨੇ ਹੋਣਗੇ। ਇਹ ਸਵਾਲ 10 (5+5) ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

2. **ਕਥਾ-ਯਾਤਰਾ** ਵਿਚੋਂ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਕਹਾਣੀਆਂ ਦੇ ਵਿਸ਼ੇ- ਵਸਤੂ, ਸਾਰ, ਪਾਤਰ ਚਿੱਤਰਣ, ਸਾਹਿਤਕ ਮੁੱਲਾਂਕਣ ਜਾਂ ਅਜਿਹਾ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾ ਸਕਦਾ ਹੈ ਜੋ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀ ਕਹਾਣੀ ਦੇ ਮੁੱਲ ਨੂੰ ਪ੍ਰਗਟ ਕਰਦਾ ਹੋਵੇ। ਅੰਦਰੂਨੀ ਛੂਟ ਨਾਲ ਸਵਾਲ ਪੁੱਛਿਆ ਜਾਵੇਗਾ। ਇਹ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

3. ਦੋ ਵਿਸ਼ੇ ਸੱਦਾ ਪੱਤਰ ਲਿਖਣ ਸਬੰਧੀ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਇਸ ਵਿਚ ਇਕ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਪ੍ਰਸ਼ਨ 05 ਨੰਬਰ ਦਾ ਹੈ।

4. ਕਿਸੇ ਖਾਸ ਮਸਲੇ ਨਾਲ ਸਬੰਧਤ ਦੋ ਜਾਂ ਤਿੰਨ ਵਿਸ਼ੇ ਦਿੱਤੇ ਜਾਣਗੇ ਅਤੇ ਇਸ ਵਿਚੋਂ ਕਿਸੇ ਇਕ ਵਿਸ਼ੇ ਉੱਤੇ ਪੈਰ੍ਹਾ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਸ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੈ।

5. ਆਖਰੀ ਸਵਾਲ ਸਲੇਬਸ ਵਿਚ ਲੱਗੀਆਂ ਪੁਸਤਕਾਂ ਵਿਚੋਂ 10 ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨਾਂ (05 **ਕਾਵਿ ਤਰੰਗਾਂ** ਅਤੇ 05 **ਕਥਾ ਯਾਤਰਾ** ਵਿਚੋਂ) ਦਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਦੇ ਚਾਰ ਵਿਕਲਪ ਦਿੱਤੇ ਹੋਣਗੇ ਅਤੇ ਵਿਦਿਆਰਥੀ ਨੇ ਸਹੀ ਵਿਕਲਪ ਲਿਖਣਾ ਹੋਵੇਗਾ। ਇਹ ਸਵਾਲ 10 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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B.A. (Hons.) Panjabi

ਸਮੈਸਟਰ-III

ਪੇਪਰ ਪੰਜਵਾਂ : ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (1851 ਤੋਂ ਹੁਣ ਤੱਕ)

ਕੁਲ ਨੰਬਰ :100

(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ: 3ਘੰਟੇ

1.ਪਰਿਵਰਤਨ ਕਾਲ/ਸੰਕ੍ਰਾਂਤੀ ਕਾਲ

2.ਸਿੰਘ ਸਭਾ ਲਹਿਰ ਦੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਨੂੰ ਦੇਣ

3.ਈਸਾਈ ਮਿਸ਼ਨਰੀਆਂ ਦੀ ਪੰਜਾਬੀ ਸਾਹਿਤ ਨੂੰ ਦੇਣ

4.ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ

5. ਭਾਈ ਵੀਰ ਸਿੰਘ ਤੋਂ ਪਹਿਲਾ ਪੰਜਾਬੀ ਨਾਵਲ

6 ਪੰਜਾਬੀ ਨਾਵਲ 1960 ਤੱਕ

7. ਪੰਜਾਬੀ ਨਾਵਲ 1960 ਤੋਂ ਹੁਣ ਤੱਕ

8.ਪ੍ਰਗਤੀਵਾਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ

9. ਜੁਝਾਰਵਾਦੀ ਪੰਜਾਬੀ ਕਵਿਤਾ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1.. ਧਰਮਪਾਲ ਸਿੰਗਲ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ, ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ,ਚੰਡੀਗੜ੍ਹ, 2006.

2.. ਪਰਮਿੰਦਰ ਸਿੰਘ, ਕਿਰਪਾਲ ਸਿੰਘ ਕਸੇਲ ਅਤੇ ਹੋਰ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਉਤਪੱਤੀ ਤੇ ਵਿਕਾਸ, ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ ਲੁਧਿਆਣਾ।

3. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ, ਭਾਸ਼ਾ ਵਿਭਾਗ ਪੰਜਾਬ।

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. ਇਸ ਪੇਪਰ ਦੇ ਦੋ ਭਾਗ ਹੋਣਗੇ।

2. ਪਹਿਲੇ ਭਾਗ ਵਿਚ ਅੱਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਚਾਰ ਦੇ ਉੱਤਰ ਦੇਣੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

3. ਦੂਸਰੇ ਭਾਗ ਵਿਚ ਉਪਰੋਕਤ ਸਲੇਬਸ ਵਿਚੋਂ ਦਸ ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਇਸ ਭਾਗ ਦੇ ਸਾਰੇ ਹੀ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਇਕ ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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ਪੇਪਰ ਛੇਵਾਂ : ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਕਵਿਤਾ (1960 ਤੱਕ)

ਕੁਲ ਨੰਬਰ :100

(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ : 3ਘੰਟੇ

ਭਾਈ ਵੀਰ ਸਿੰਘ	ਮਟਕ ਹੁਲਾਰੇ
ਅੰਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮ	ਸੁਨੇਹੜੇ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਮਟਕ ਹੁਲਾਰੇ, ਖਾਲਸਾ ਟ੍ਰੈਕਟ ਸੁਸਾਇਟੀ, ਅੰਮ੍ਰਿਤਸਰ।

2. ਸੁਨੇਹੜੇ, ਸ਼ਿਲਾਲੇਖ, ਦਿੱਲੀ, 2004.

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼

1. ਇਸ ਪੇਪਰ ਦੇ ਤਿੰਨ ਭਾਗ ਹੋਣਗੇ।
2. ਪਹਿਲਾ ਪ੍ਰਸ਼ਨ ਪ੍ਰਸੰਗ ਸਾਹਿਤ ਵਿਆਖਿਆ ਦਾ ਹੋਵੇਗਾ ਜਿਸ ਵਿਚ ਵਿਦਿਆਰਥੀ ਨੂੰ ਚਾਰ ਪੈਰੇ ਦਿੱਤੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਦੋ ਦੇ ਉੱਤਰ ਦੇਣੇ ਹੋਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ 20 (10+10) ਨੰਬਰਾਂ ਦਾ ਹੋਵੇਗਾ।
3. ਦੂਜੇ ਹਿੱਸੇ ਵਿਚ 6 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
4. ਤੀਸਰੇ ਭਾਗ ਵਿਚ ਦਿੱਤੇ ਗਏ ਸਲੇਬਸ ਵਿਚੋਂ ਦਸ ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਇਸ ਭਾਗ ਦੇ ਸਾਰੇ ਹੀ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਇਕ ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

ਪੇਪਰ ਸੱਤਵਾਂ : ਪੇਪਰ ਸੱਤਵਾਂ : ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੇ ਰੂਪ

ਕੁਲ ਨੰਬਰ :100

(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ : 3ਘੰਟੇ

(ੳ) 1. ਕਿੱਸਾ 2. ਵਾਰ 3. ਕਾਫ਼ੀ 4. ਗ਼ਜ਼ਲ 5. ਰੁਬਾਈ 6. ਸੀਹਰਫ਼ੀ 7.ਬਾਰਾਮਾਹ 8. ਜੰਗਨਾਮਾ 9. ਜਨਮਸਾਖੀ

(ਅ) 1. ਕਵਿਤਾ 2. ਨਿੱਕੀ ਕਹਾਣੀ 3. ਨਾਵਲ 4. ਨਾਟਕ 5. ਇਕਾਂਗੀ 6. ਨਿਬੰਧ 7. ਸਫ਼ਰਨਾਮਾ 8. ਜੀਵਨੀ 9. ਸਵੀਜੀਵਨੀ

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ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1.ਪਰਮਿੰਦਰ ਸਿੰਘ ਅਤੇ ਕਿਰਪਾਲ ਸਿੰਘ ਕਸੇਲ, ਸਾਹਿਤ ਦੇ ਰੂਪ, ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ।

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. ਇਸ ਪੇਪਰ ਦੇ ਦੋ ਭਾਗ ਹੋਣਗੇ।
2. ਭਾਗ ਪਹਿਲਾ ਵਿਚ ਪ੍ਰਾਪਤ ਸਲੇਬਸ ਵਿਚ ਖੰਡ ੳ ਅਤੇ ਅ ਵਿਚੋਂ ਚਾਰ-ਚਾਰ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਦੋ-ਦੋ ਦੇ ਉੱਤਰ ਦੇਣੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
3. ਦੂਸਰੇ ਭਾਗ ਵਿਚ ਉਪਰੋਕਤ ਸਲੇਬਸ ਵਿਚੋਂ ਦਸ ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਇਸ ਭਾਗ ਦੇ ਸਾਰੇ ਹੀ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਇਕ ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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ਸਮੈਸਟਰ-IV

ਪੇਪਰ ਅੱਠਵਾਂ : ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ (1851-ਹੁਣ ਤਕ)

ਕੁਲ ਨੰਬਰ :100

(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ: 3ਘੰਟੇ

1. ਪੰਜਾਬੀ ਕਹਾਣੀ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ
2. ਪੰਜਾਬੀ ਨਾਟਕ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ
3. ਪੰਜਾਬੀ ਇਕਾਂਗੀ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਸ
4. ਪੰਜਾਬੀ ਰੰਗਮੰਚ
5. ਪੰਜਾਬੀ ਨਿਬੰਧ ਦਾ ਨਿਕਾਸ ਤੇ ਵਿਕਾਸ
6 ਪੰਜਾਬੀ ਸਫ਼ਰ ਨਾਮਾ
7. ਪੰਜਾਬੀ ਜੀਵਨੀ ਤੇ ਸਵੈ ਜੀਵਨੀ
8. ਪੰਜਾਬੀ ਆਲੋਚਨਾ ਦਾ ਆਰੰਭ ਤੇ ਵਿਕਾਸ
9. ਰੇਖਾ ਚਿੱਤਰ ਤੇ ਪੰਜਾਬੀ ਰੇਖਾ ਚਿੱਤਰ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1.. ਧਰਮਪਾਲ ਸਿੰਗਲ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ, ਲੋਕਗੀਤ ਪ੍ਰਕਾਸ਼ਨ,ਚੰਡੀਗੜ੍ਹ, 2006.

2.. ਪਰਮਿੰਦਰ ਸਿੰਘ, ਕਿਰਪਾਲ ਸਿੰਘ ਕਸੇਲ ਅਤੇ ਹੋਰ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਦੀ ਉਤਪੱਤੀ ਤੇ ਵਿਕਾਸ, ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ ਲੁਧਿਆਣਾ।

3. ਪੰਜਾਬੀ ਸਾਹਿਤ ਦਾ ਇਤਿਹਾਸ, ਭਾਸ਼ਾ ਵਿਭਾਗ ਪੰਜਾਬ।

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼ :

1. ਇਸ ਪੇਪਰ ਦੇ ਦੋ ਭਾਗ ਹੋਣਗੇ।
2. ਪਹਿਲੇ ਭਾਗ ਵਿਚ ਅੱਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਚਾਰ ਦੇ ਉੱਤਰ ਦੇਣੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
3. ਦੂਸਰੇ ਭਾਗ ਵਿਚ ਉਪਰੋਕਤ ਸਲੇਬਸ ਵਿਚੋਂ ਦਸ ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਇਸ ਭਾਗ ਦੇ ਸਾਰੇ ਹੀ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਇਕ ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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ਪੇਪਰ ਨੌਵਾਂ : ਸਮਕਾਲੀ ਪੰਜਾਬੀ ਕਵਿਤਾ

ਕੁਲ ਨੰਬਰ :100

(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ: 3ਘੰਟੇ

ਅਵਤਾਰ ਸਿੰਘ ਪਾਸ਼ ਉਡਦਿਆਂ ਬਾਜ਼ਾਂ ਮਗਰ

ਜਸਵੰਤ ਦੀਦ ਕਮੰਡਲ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਸੰਪੂਰਨ ਪਾਸ਼ ਕਾਵਿ, ਚੇਤਨਾ ਪ੍ਰਕਾਸ਼ਨ, ਲੁਧਿਆਣਾ,2000. 2.ਜਸਵੰਤ ਦੀਦ, ਕਮੰਡਲ, ਲੋਕ ਗੀਤ ਪ੍ਰਕਾਸ਼ਨ ਚੰਡੀਗੜ੍ਹ,

2004.

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼

1. ਇਸ ਪੇਪਰ ਦੇ ਤਿੰਨ ਭਾਗ ਹੋਣਗੇ।

2. ਪਹਿਲਾ ਭਾਗ ਵਿਚ ਪ੍ਰਸ਼ਨ ਪ੍ਰਸੰਗ ਸਾਹਿਤ ਵਿਆਖਿਆ ਦਾ ਹੋਵੇਗਾ ਜਿਸ ਵਿਚ ਵਿਦਿਆਰਥੀ ਨੂੰ ਚਾਰ ਪੈਰੇ ਦਿੱਤੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੇ ਇਨ੍ਹਾਂ ਵਿਚੋਂ ਦੋ ਦੇ ਉੱਤਰ ਦੇਣੇ ਹੋਣਗੇ। ਇਹ ਪ੍ਰਸ਼ਨ 20 (10+10) ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

3. ਦੂਜੇ ਭਾਗ ਵਿਚ ਸਬੰਧਤ ਪੁਸਤਕਾਂ ਵਿਚੋਂ 6 ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਤਿੰਨ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ। ਹਰ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

4. ਤੀਸਰੇ ਭਾਗ ਵਿਚ ਦਿੱਤੇ ਗਏ ਸਲੇਬਸ ਵਿਚੋਂ ਦਸ ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਇਸ ਭਾਗ ਦੇ ਸਾਰੇ ਹੀ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਹੋਣਗੇ। ਹਰੇਕ ਪ੍ਰਸ਼ਨ ਇਕ ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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ਪੇਪਰ ਦਸਵਾਂ : ਵਿਆਕਰਣ

ਕੁਲ ਨੰਬਰ :100

(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ : 3ਘੰਟੇ

ਵਿਆਕਰਣ :

(ੳ) ਪਰੈਸੀ

(ਅ) ਅਣਡਿੱਠਾ ਪੈਰਾ

(ਏ) i. ਬਹੁ ਅਰਥਕ ਸ਼ਬਦ ii. ਭਿੰਨ ਅਰਥਕ ਸ਼ਬਦ

iii. ਮੁਹਾਵਰੇ iv. ਅਖਾਣ

(ਸ) ਸਾਹਿਤਕ ਸ਼ਬਦਾਵਲੀ

1	**Abstact**	ਸੂਖਮ
2	**Action**	ਕਾਰਜ
3	**Adaptation**	ਅਨੁਕੂਲਤਾ/ਰੂਪਾਂਤ੍ਰਣ
4	**Affective Fallacy**	ਪ੍ਰਭਾਵ/ਭ੍ਰਮ ਜਾਲ਼
5	**Allegory**	ਲਾਕਸ਼ਣਿਕ ਪ੍ਰਯੋਗ ਉਕਤੀ
6	**Ambiguity**	ਅਸਪੱਸ਼ਟਤਾ
7	**Analysis**	ਵਿਸ਼ਲੇਸ਼ਣ
8	**Anxiety**	ਤੋਖਲਾ
9	**Aporias**	ਅੰਤਰ ਵਿਰੋਧ
10	**Arbitrary**	ਆਪਹੁਦਰਾ, ਸੁਤੇਸਿਧ
11	**Authentic**	ਪ੍ਰਮਾਣਿਕ
12	**Binary**	ਦੋਹਰੀ
13	**Cognitive**	ਯਗੁਰਥ -ਬੋਧਕੀ
14	**Coherence**	ਇਕਮੁੱਠਤਾ
15	**Competence**	ਸਮਰਥਾ, ਯੋਗਤਾ
16	**Complex**	ਜਟਿਲ, ਮਨੋਗ੍ਰਥੀ
17	**Conative**	ਸੰਕਲਪਾਤਮਕ
18	**Concept**	ਸੰਕਲਪ
19	**Concrete**	ਸਮੂਰਤ

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20	**Conflict**	ਤਨਾਉ
21	**Consonant**	ਵਿਅੰਜਨ
22	**Context**	ਸੰਦਰਭ
23	**Correlated**	ਸਹਿ ਸੰਬੰਧਿਤ
24	**Decentred**	ਵਿਕੇਂਦ੍ਰਿਤ
25	**Deconstruction**	ਵਿਰਚਨਾ
26	**Deep Structure**	ਡੂੰਘ ਸੰਰਚਨਾ
27	**Demystification**	ਸਪੱਸ਼ਟਤਾ
28	**Denotation**	ਸੰਕੇਤਕ
29	**Deviation**	ਪਰਾਹਨ
30	**Dielectical**	ਬੋਲੀ ਅੰਤਰ
31	**Emotional state**	
32	**Epistemology**	ਗਿਆਨ ਮਿਮਾਸਾ
33	**Exceptional**	ਅਪਵਾਦ
34	**Existence**	ਅਸਤਿਤ
35	**Extensive Totality**	ਡੂੰਘੀ ਸੱਮੁਚਤਾ
36	**Febulation**	ਮਨਘੜੰਤ ਕਥਾ
37	**Factuality**	ਤੱਥ ਮੁਲਕ
38	**False Consciousness**	ਝੂਠੀ ਚੇਤਨਾ
39	**Feelings**	ਸੰਵੇਦਨਾ, ਭਾਵਨਾ
40	**Feminism**	ਨਾਰੀਵਾਦ
41	**Feminist Sensability**	ਨਾਰੀਤ ਸੰਵੇਦਨਾ
42	**Function**	ਪ੍ਰਕਾਰਜ਼
43	**Genre**	ਵਿਧਾ
44	**Grammatology**	ਵਿਆਕਰਣ ਸ਼ਾਸਤਰ
45	**Hedonistic**	ਆਨੰਦਵਾਦੀ

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46	**Historical Materialism**	ਇਤਿਹਾਸ ਭੌਤਿਕਵਾਦ
47	**Iconic**	ਸੁਹਜ- ਬਿੰਬ
48	**Idealism**	ਆਦਰਸ਼ਵਾਦ
49	**Ideology**	ਵਿਚਾਰਧਾਰਾ
50	**Imitation**	ਅਨੁਕਰਣ
51	**Intellectualism**	ਬੌਧਿਕਤਾਵਾਦ
52	**Intensity**	ਤੀਬਰਤਾ
53	**Intentional Fallacy**	ਮਨਇੱਛਤ ਨਕਸ਼ਾਨਿਗਾਰੀ
54	**Intertext**	ਅੰਤਰਪਾਠ
55	**Irony**	ਵਿਅੰਗ
56	**Libido**	ਕਾਮ- ਪ੍ਰੇਰਕ- ਸ਼ਕਤੀ, ਟੈਨਵ੍ਰਿਤੀ
57	**Manifest**	ਪ੍ਰੱਤਖ
58	**Metaphor**	ਰੂਪਕ
59	**Mimetic**	ਅਨੁਕਰਣਾਤਮਕ
60	**Monologic**	ਸੰਗਤ ਕਥਨ
61	**Morpheme**	ਰੂਪਗ੍ਰਾਮ
62	**Motivation**	ਪ੍ਰਯੋਜਨ
63	**Objective**	ਵਸਤੂ ਪਰਕ
64	**Parole**	ਉਚਾਰ
65	**Perception**	ਪ੍ਰਤੱਖਣ
66	**Performance**	ਨਿਭਾਉ
67	**Perspective**	ਪਰਿਪੇਖ
68	**Philology**	ਭਾਸ਼ਾ ਸ਼ਾਸਤਰ
69	**Philosophy**	ਦਰਸ਼ਨ
70	**Phoneme**	ਧੁਨੀਗ੍ਰਾਮ, ਸਾਰਥਕਧੁਨੀ
71	**Plurality**	ਅਨੇਕਤਾ

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72	**Poetic**	ਕਾਵਿਕ
73	**Polygenesis**	ਬਹੁਮੂਲਕ
74	**Post Modern**	ਉੱਤਰਆਧੁਨਿਕ
75	**Post Structuralism**	ਉੱਤਰਸੰਰਚਨਾਵਾਦ
76	**Potential**	ਸੰਭਾਵੀ
77	**Prescriptive**	ਆਦੇਸ਼ਾਤਮਕ
78	**Primitive**	ਆਦਿਮ
79	**Projection**	ਪ੍ਰਖੇਪਣ
80	**Rationalism**	ਤਰਕਵਾਦ
81	**Reception**	ਵਸੂਲਣ
82	**Relative**	ਸਾਪੇਖਕ
83	**Response**	ਪ੍ਰਤਿਕ੍ਰਿਆ, ਅਨੁਵਚਨ, ਹੁੰਗਾਰਾ
84	**Rhetoric**	ਅੰਲਕਾਰ ਸ਼ਾਸਤਰ, ਵਾਕ ਸ਼ਾਸਤਰ
85	**Rhythm**	ਲੈਅ
86	**Semantics**	ਅਰਥ ਸ਼ਾਸਤਰ
87	**Semiotics**	ਚਿੰਨ੍ਹ- ਵਿਗਿਆਨ
88	**Sensation**	ਸੰਵੇਦਨਾ
89	**Sensations**	ਭਾਵ ਤਰੰਗਾਂ
90	**Significance**	ਮਹੱਤਤਾ
91	**Signification**	ਚਿੰਨ੍ਹਣ, ਚਿੰਨੀਕਰਣ
92	**Signified**	ਚਿਹਨਤ
93	**Signifier**	ਚਿਹਨਕ
94	**Subjective**	ਆਤਮਪਰਕ
95	**Symbolic**	ਪ੍ਰਤੀਕਾਤਮਕ
96	**Syncchronic**	ਇਕਾਲਿਕ
97	**Syntax**	ਵਾਕ ਰਚਨਾ

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98	**Synthesis**	ਸੰਸਲੇਸ਼ਣ
99	**Temporal**	ਸਾਮਿਅਕ
100	**Tension**	ਤਨਾਉ
101	**Texrual**	ਪਾਠਗਤ
102	**Theology**	ਧਰਮ ਸ਼ਾਸਤਰ
103	**Unconscious**	ਅਚੇਤਨ
104	**Utterance**	ਉਚਾਰ
105	**Vision**	ਦ੍ਰਿਸ਼ਟੀ
106	**World Vision**	ਵਿਸ਼ਵ ਦ੍ਰਿਸ਼ਟੀ
107	**Writing**	ਲਿਖਤ

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼

1. ਪ੍ਰੈਸੀ ਅਤੇ ਅਣਡਿੱਠਾ ਪੈਰ੍ਹਾ 15-15 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
2. ਬਹੁ-ਅਰਥਕ ਸ਼ਬਦ, ਭਿੰਨ ਅਰਥਕ ਸ਼ਬਦ, ਮੁਹਾਵਲੇ ਅਤੇ ਅਖਾਣ 10-10 ਨੰਬਰ ਦੇ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੂੰ ਸਾਰੇ ਹੀ ਪ੍ਰਸ਼ਨ ਕਰਨੇ ਜ਼ਰੂਰੀ ਹਨ।
3. ਸਾਹਿੱਤਕ ਸ਼ਬਦਾਵਲੀ 20 ਨੰਬਰ ਦੀ ਆਵੇਗੀ।

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ਪੇਪਰ ਗਿਆਰਵਾਂ : ਪੰਜਾਬੀ ਨਾਵਲ

ਕੁਲ ਨੰਬਰ :100

(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ: 3ਘੰਟੇ

ਨਾਨਕ ਸਿੰਘ	ਚਿੱਟਾ ਲਹੂ
ਕਰਮਜੀਤ ਸਿੰਘ ਕੁੱਸਾ	ਰਾਤ ਦੇ ਰਾਹੀ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਨਾਨਕ ਸਿੰਘ, ਚਿੱਟਾ ਲਹੂ, ਨਾਨਕ ਸਿੰਘ ਪੁਸਤਕ ਮਾਲਾ, ਅੰਮ੍ਰਿਤਸਰ। 2. ਕਰਮਜੀਤ ਸਿੰਘ ਕੁੱਸਾ, ਰਾਤ ਦੇ ਰਾਹੀ, ਲਾਹੌਰ ਸ਼ਾਪ ਲੁਧਿਆਣਾ।

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼

1. ਇਸ ਪੇਪਰ ਦੇ ਤਿੰਨ ਭਾਗ ਹੋਣਗੇ।
2. ਭਾਗ ਪਹਿਲਾ ਵਿਚ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਦੋਵੇਂ ਨਾਵਲਕਾਰਾਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਉਨ੍ਹਾਂ ਦੇ ਪੰਜਾਬੀ ਨਾਵਲ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਬਾਰੇ ਦੋ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਇਕ ਇਕ ਪਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰਾਂ ਦਾ ਹੋਵੇਗਾ।
3. ਦੂਜੇ ਭਾਗ ਵਿਚ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਨਾਵਲਾਂ ਨਾਲ ਸਬੰਧਤ ਦੋ ਦੋ ਪ੍ਰਸ਼ਨ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਇਕ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
4. ਤੀਜੇ ਭਾਗ ਵਿਚ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਲੇਖਕ ਅਤੇ ਉਸ ਦੀ ਰਚਨਾ ਨਾਲ ਸਬੰਧਤ ਦਸ ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੇ ਦਸਾਂ ਦਾ ਹੀ ਉੱਤਰ ਦੇਣਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਇਕ ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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ਪੇਪਰ ਬਾਰ੍ਹਵਾਂ : ਆਧੁਨਿਕ ਪੰਜਾਬੀ ਵਾਰਤਕ (1960 ਤੱਕ)

ਕੁਲ ਨੰਬਰ :100

(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ: 3ਘੰਟੇ

ਗੁਰਬਖ਼ਸ਼ ਸਿੰਘ	ਜ਼ਿੰਦਗੀ ਦੀ ਕਵਿਤਾ
ਤੇਜਾ ਸਿੰਘ	ਆਰਸੀ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1.ਗੁਰਬਖ਼ਸ਼ ਸਿੰਘ, ਜ਼ਿੰਦਗੀ ਦੀ ਕਵਿਤਾ, ਨਵਯੁੱਗ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ।

2. ਤੇਜਾ ਸਿੰਘ, ਆਰਸੀ, ਪਬਲੀਕੇਸ਼ਨ ਬਿਊਰੋ, ਪੰਜਾਬੀ ਯੂਨੀਵਰਸਿਟੀ, ਪਟਿਆਲਾ।

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼

1. ਇਸ ਪੇਪਰ ਦੇ ਤਿੰਨ ਭਾਗ ਹੋਣਗੇ
2. ਭਾਗ ਪਹਿਲਾ ਵਿਚ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਦੋਵੇਂ ਵਾਰਤਕ ਲੇਖਕਾਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਉਨ੍ਹਾਂ ਦੇ ਪੰਜਾਬੀ ਵਾਰਤਕ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਬਾਰੇ ਦੋ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਇਕ ਇਕ ਪਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰਾਂ ਦਾ ਹੋਵੇਗਾ।
3. ਦੂਜੇ ਭਾਗ ਵਿਚ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਵਾਰਤਕ ਪੁਸਤਕਾਂ ਨਾਲ ਸਬੰਧਤ ਦੋ ਦੋ ਪ੍ਰਸ਼ਨ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਇਕ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
4. ਤੀਜੇ ਭਾਗ ਵਿਚ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਲੇਖਕ ਅਤੇ ਉਸ ਦੀ ਰਚਨਾ ਨਾਲ ਸਬੰਧਤ ਦਸ ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੇ ਦਸਾਂ ਦਾ ਹੀ ਉੱਤਰ ਦੇਣਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਇਕ ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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ਪੇਪਰ ਤੇਰ੍ਹਵਾਂ : ਪੰਜਾਬੀ ਨਾਟਕ

ਕੁਲ ਨੰਬਰ :100

(ਪੇਪਰ : 90 ਅਤੇ ਇੰਟਰਨਲ ਅਸੈਸਮੈਂਟ :10) ਸਮਾਂ: 3ਘੰਟੇ

ਹਰਚਰਨ ਸਿੰਘ ਕਲ੍ਹ ਅੱਜ ਤੇ ਭਲ਼ਕ

ਕਪੂਰ ਸਿੰਘ ਘੁੰਮਣ ਅਤੀਤ ਦੇ ਪਰਛਾਵੇਂ

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. ਹਰਚਰਨ ਸਿੰਘ, ਕਲ੍ਹ ਅੱਜ ਤੇ ਭਲ਼ਕ, ਨਵਯੁੱਗ ਪ੍ਰਕਾਸ਼ਨ, ਦਿੱਲੀ।
2. ਕਪੂਰ ਸਿੰਘ ਘੁੰਮਣ, ਅਤੀਤ ਦੇ ਪਰਛਾਵੇਂ, ਲਾਹੌਰ ਬੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ।

ਜ਼ਰੂਰੀ ਨਿਰਦੇਸ਼

1. ਇਸ ਪੇਪਰ ਦੇ ਤਿੰਨ ਭਾਗ ਹੋਣਗੇ
2. ਭਾਗ ਪਹਿਲਾ ਵਿਚ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਦੋਵੇਂ ਵਾਰਤਕ ਲੇਖਕਾਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ, ਰਚਨਾ ਦ੍ਰਿਸ਼ਟੀ ਅਤੇ ਉਨ੍ਹਾਂ ਦੇ ਪੰਜਾਬੀ ਵਾਰਤਕ ਵਿਚ ਬਣਦੇ ਸਥਾਨ ਬਾਰੇ ਦੋ ਦੋ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਇਕ ਇਕ ਪਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰਾਂ ਦਾ ਹੋਵੇਗਾ।
3. ਦੂਜੇ ਭਾਗ ਵਿਚ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਵਾਰਤਕ ਪੁਸਤਕਾਂ ਨਾਲ ਸਬੰਧਤ ਦੋ ਦੋ ਪ੍ਰਸ਼ਨ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ ਜਿਨ੍ਹਾਂ ਵਿਚੋਂ ਵਿਦਿਆਰਥੀ ਨੇ ਇਕ ਇਕ ਪ੍ਰਸ਼ਨ ਕਰਨਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ 20 ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।
4. ਤੀਜੇ ਭਾਗ ਵਿਚ ਸਲੇਬਸ ਵਿਚ ਲੱਗੇ ਲੇਖਕ ਅਤੇ ਉਸ ਦੀ ਰਚਨਾ ਨਾਲ ਸਬੰਧਤ ਦਸ ਵਸਤੂ ਨਿਸ਼ਠ ਪ੍ਰਸ਼ਨ ਪੁੱਛੇ ਜਾਣਗੇ। ਵਿਦਿਆਰਥੀ ਨੇ ਦਸਾਂ ਦਾ ਹੀ ਉੱਤਰ ਦੇਣਾ ਹੋਵੇਗਾ। ਹਰ ਪ੍ਰਸ਼ਨ ਇਕ ਨੰਬਰ ਦਾ ਹੋਵੇਗਾ।

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B. A (General) III Semester (History)

Time: Three Hours Max. Marks: 90
(Option I) : History of India (1526 – 1857) Internal Marks:10

Note:

q) 10 questions will be set and the candidates shall have to attempt 5 questions in all selecting at least 1 question from each Section.

r) There will be a compulsory question on the map carrying 18 marks (12 marks for map work and 6 marks for explanatory note). Blind candidates may not attempt the map question. In lieu of the map question, they may attempt any question from other Sections. However, in case they wish to attempt the map question, the part relating to the explanatory note will carry full marks.

s) There will be one objective type question. The question will be divided into three Parts. Part - I will have some short answer type questions of 8 marks, Part –I I will have multiple choice questions of 5 marks and Part - III will have matching type questions of 5 marks.

SECTION – I

1 Establishment of Mughal Empire: Babur
2 Sher Shah and his Administration
3 Akbar: Rajput Policy and Religious Policy
4 Aurangzeb: Relations with Rajputs and Religious Policy

SECTION – II

5 Deccan Policy of the Mughals and their Relations with the Sikhs and the Marathas
6 Mughal Administration: Central and Provincial; Revenue System
7 Political Institutions: Mansabdari and Jagirdari Systems
8 Decline of Mughal Empire

SECTION- III

9 French and British Companies' Rivalry in India
10 Occupation of Bengal by the British: Battle of Plassey and Buxer
11 Consolidation of the British Rule: Wellesley and Dalhousie
12 Uprising of 1857: Causes, Nature and Impact

SECTION – IV

MAPS:

1 Political Conditions of India in1526
2 Mughal Empire at the Death of Akbar (1605)
3 Mughal Empire at the Death of Aurangzeb (1707)
4 Majour Centres of Uprising of 1857

SECTION – V

Objective Type Questions

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Suggested Readings:

1	Basham, A.L.	*The Wonder That Was India*, Vol. II
2	Bayly, C. A.	*Indian Society and Making of the British Empire: The New Cambridge History of India*, Vol. II
3	Gordon, Stewart	*The Marathas, 1600-1818 : The New Cambridge History of India*, Vol. V
4	Hasan, Ibn	*Central Stracture of Mughal India.*
5	Kulkarni, A. R.	*Medieval Maharastra*
6	Kulke, H and D. Rothemund	*History of India*
7	Majumdar, Datta and Ray - chowdhary (eds)	*Advanced History of India*
8	Pandey, A. B.	*Later Medieval India*
9	Richards, John F.	*Mughal Empire: New Cambridge History of India*, Vol. V
10	Satish Chandra	*Medieval India: From Sultanate to the Mughals*
11	Satish Chandra	*Madhyakalin Bharat* (Hindi)
12	Satish Chandra	*Mughal Religious Policies : Rajpur to Daccan*
13	Shukla, R. L. (ed.)	*Adhunik Bharat KaItihas* (Hindi)
14	Spear,T.G.P.	*History of India*, Vol. II
15	Tripathi, R. P.	*Some Aspects of Muslim Administration*
16	Tripathi, R. P.	*Rise and Fall of Mughal Empire*
17	Verma, H. C.	*Madyakalin Bharat*, Vol-I & II

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Time: Three Hours Max. Marks: 90

(Option II) : Socio-Economic History of India (1526 – 1857) Internal Marks:10

Note:

(i) 10 questions will be set and the candidates shall have to attempt 5 questions in all selecting at least 1 question from each Section.

(ii) There will be a compulsory question on the map carrying 18 marks (12 marks for map work and 6 marks for explanatory note). Blind candidates may not attempt the map question. In lieu of the map question, they may attempt any question from other Sections. However, in case they wish to attempt the map question, the part relating to the explanatory note will carry full marks.

(iii) There will be one objective type question. The question will be divided into three Parts. Part - I will have some short answer type questions of 8 marks, Part –I I will have multiple choice questions of 5 marks and Part - III will have matching type questions of 5 marks..

SECTION – I

1 Social Structure: Ruling Class, Religious Class, Peasants and Artisans
2 Position of Women
3 Bhakti Movement and Sufism: Salient Features
4 Education System; Art and Architecture

SECTION – II

5 Village Community; System of Agriculture
6 Handicraft Industry: Trade and Commerce
7 Standard of Living
8 Currency System of the Mughals

SECTION- III

9 Land Revenue System of the British : Permanent Settlement, Rayotwari System and Mahalwari System
10 Decline of Handicraft Industry
11 Western Education
12 Introduction of Railways

SECTION – IV

MAPS:

1 Major Urban Centres during the Mughal Period
2 Major Internal Trade Routes under the Mughals
3 Centres of Major Mughal Monumants
4 Jurisdiction of Permanent Settlement

SECTION – V

Objective Type Questions

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Suggested Readings:

1	Banerjee, Himadri	*Agrarian Society of the Punjab,1849-1901*
2	Banga, Indu and Jaidev (eds.)	*Cultural Reorientation in Modern India*
3	Bayly, C. A.	*Indian Society and the Making of the British Empire: The New Cambridge History of India,* Vols. I & II
4	Brawn, Peray	*Indian Architecture : Muslim Period*
5	Desai, A.R.	*Social Background of Indian Nationalism*
6	Desai, Z. A.	*Indo-Islamic Architecture*
7	Gopal, S.	*The Permanent Settlement in Bengal*
8	Gordon, Stewart	*The Marathas, 1600-1818 : The New Cambridge History of India,* Vol. IV
9	Habib, Ifran	*Cambridge Economic History of India,* Vol-I
10	Habib, Irfan	*Agrarian System in Mughal India*
11	Kulkarni, A. R.	*Medieval Maharastra*
12	Lunia, B.N.	*Madyakalin Bhartiya Saskriti*
13	Majumdar, Datta and Ray chowdhary	*Advanced History of India*
14	Moreland, W.H.	*India at the Death of Akbar*
15	Naqvi, H.K.	*Urbanization and Urban Centres under the Great Mughals*
16	Rashid, A.	*Society and Culture in Medieval India*
17	Rashid, A.	*Social and Cultural History of Medieval India*
18	Rashid, A.	*Society and Culture in Medieval India*
19	Richards, John F.	*Mughal Empire: New Cambridge History of India,* Vol. V
20	Rizvi, S.A.A.	*History of Sufism in India,* Vol-II
21	Satish Chandra	*Medieval India: From Sultanate to the Mughals*
22	Satish Chandra	*Madhyakalin Bharat* (Hindi)
23	Sen, Sunil, K.	*Agrarian Relations in India, 1793-1947*
24	Spear, T.G.P.	*History of India,* Vol. II

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25	Srinivas, M.N.	*Caste in Modern India and Other Essays*
26	Stein, Burton	*Peasants, State and Society in Medieval South India*
27	Tara Chand	*Influence of Islam on Indian Culture*
28	Tripathi, R.P.	*Rise and Fall of Mughal Empire*
29	Verma, H. C.	*Madyakalin Bharat* (Hindi),Vols I & II

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B. A (General) IV Semester (History)

Time: Three Hours Max. Marks: 90

(Option I): History of India (1858 – 1964) Internal Marks:10

Note:

(i) 10 questions will be set and the candidates shall have to attempt 5 questions in all selecting at least 1 question from each Section.

(ii) There will be a compulsory question on the map carrying 18 marks (12 marks for map work and 6 marks for explanatory note). Blind candidates may not attempt the map question. In lieu of the map question, they may attempt any question from other Sections. However, in case they wish to attempt the map question, the part relating to the explanatory note will carry full marks.

(iii) There will be one objective type question. The question will be divided into three Parts. Part - I will have some short answer type questions of 8 marks, Part –I I will have multiple choice questions of 5 marks and Part - III will have matching type questions of 5 marks.

SECTION – I

1 Origin and Growth of National Consciousness
2 Formation of Indian National Congress: Policies and Programmes of Moderates and Extremists
3 Policies and Programmes of Revolutionaries
4 Constitutional Developments: Acts of 1909 and 1919

SECTION – II

5 Emergence of Mahatma Gandhi: Khilafat and Non-Cooperation Movements, Civil-Disobedience Movement and Quit India Movement
6 Bhagat Singh and H.S.R.A.
7 Subhash Chandra Bose and I. N. A.
8 Communal Politics and Partition of India

SECTION- III

9 Integration of Princely States
10 Making of Indian Constitution and the Role of Dr. B. R. Ambedkar
11 Jawaharlal Nehru's Vision of India: Internal Policies
12 Features of Foreign Policy of Jawaharlal Nehru

SECTION – IV

MAPS:

1 Places of Important Sessions of Indian National Congress
2 Important Centres of Civil Disobedience Movement
3 Important Centrers of Revolutionary Movement
4 Integration of Princely States

SECTION – V

Objective Type Questions

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Suggested Readings :

1	Agrow, D.	*Moderates and Extremists in the Indian National Movement*
2	Balbushevik, A. & Dyakov, A.M.	*A Contemporary History of India*
3	Basu, D.D.	*Shorter Constitution of India*
4	Bettleheim, Charles	*India Independent*
5	Bipan Chandra	*Swatantrottar Bharat* (Hindi)
6	Bipan Chandra et. al.	*Bharat Ka Swatantrata Sangharsh* (Hindi)
7	Bipan Chandra et. Al.	*India's Struggle For Independence*
8	Brown, Judith	*Gandhi's Rise to Power: Indian Politics 1915-1922*
9	Desai, A.R.	*India's Path of Development*
10	Desai, A.R.	*Social Background of Indian Nationalism*
11	Guha, Ranjit (ed.)	*Subaltern Studies*, Vol. I – XI
12	Gupta, M.N.	*History of the Revolutionary Movement in India*
13	Hasan, Mushirul	*India's Partition : Process, Strategy and Mobilization*
14	Hasan, Mushirul	*Nationalism and Communal Politics in India 1916-1928*
15	Jaisingh, Hari	*India and Non-Aligned World : Search for A New Order*
16	Kothari, Rajni	*Democratic Policy and Socialist Change in India*
17	Majumdar, Datta and Ray chowdhary	*Advanced History of India*
18	Menon, V.P.	*Foreign Policy of India*
19	Moon, Penderal	*Divide and Quit*
20	Nanda, B.R.	*Gandhi : A Biography*
21	Nehru, Jawaharlal	*India's Foreign Policy*
22	Pannikar, K.N.	*National and Left Movements in India*
23	Sarkar, Sumit	*Modern India*

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24	Satyamurti, T.V.	*India Since Independence*
25	Shukla, R. L. (ed.)	*Adhunik Bharat Ka Ithas* (Hindi)
26	Srinivas, M.N.	*Caste in India and Other Essays*
27	Tara Chand	*History of the Freedom Movement in India*, Vols. I - IV
28	Tomlinson, B.R.	*Indian National Congress and the Raj : 1929-1942*
29	Vajpeyi, J.N.	*Adhunik Bharat Ka Ithas* (Hindi)
30	Yadav, Rajbir	*Bharat Ki Videsh Niti* (Hindi)

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Time: Three Hours Max. Marks: 90

(Option II): Socio-Economic History of India (1858-1964) Internal Marks:10

Note:

(i) 10 questions will be set and the candidates shall have to attempt 5 questions in all selecting at least 1 question from each Section.

(ii) There will be a compulsory question on the map carrying 18 marks (12 marks for map work and 6 marks for explanatory note). Blind candidates may not attempt the map question. In lieu of the map question, they may attempt any question from other Sections. However, in case they wish to attempt the map question, the part relating to the explanatory note will carry full marks.

(iii) There will be one objective type question. The question will be divided into three Parts. Part - I will have some short answer type questions of 8 marks, Part –I I will have multiple choice questions of 5 marks and Part - III will have matching type questions of 5 marks.

SECTION – I

1 Social Reform Movements: Brahmo Samaj, Arya Samaj, Ramkrishan Mission and Aligarh Movement

2 Commercialization of Agriculture and Famines

3 Rise of Modern Industry: Jute, Cotton, Iron and Steel

4 Rise of Middle Class

SECTION – II

5 Labour Movement

6 Press and Literature

7 Drain of Wealth Theory

8 Depressed Class Movement

SECTION- III

9 Rehabilitation Policy and Its Implementation

10 Five Years Plans

11 Process of Modernization

12 Empowerment of Women

SECTION – IV

MAPS:

1 Major Centers of Social Reforms Movements

2 Major Centres of Modern Industries

3 Major Centres of Labour Movement

4 Major Refugee Camps of Displaced Persons

SECTION – V

Objective Type Questions

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Suggested Readings:

1	Balbushevik, A. & Dyakov, A.M.	*A Contemporary History of India*
2	Bayly, Susan	*Caste, Society and Politics in India from the Eighteenth Century to the Modern Age*
3	Bayly, Susan	*Caste Society and Politics in India: The New Cambridge History of India*
4	Bettleheim, Charles	*India Independent*
5	Bipan Chandra	*Swatantrottar Bharat* (Hindi)
6	Datta, K.K.	*Social History of Modern India*
7	Desai, A. R.	*Social Background of Indian Nationalism*
8	Desai, A.R.	*India's Path of Development*
9	Dube, S.C.	*Contemporary India and its Modernization*
10	Dutt, R.C.	*Economic History of India,* Vols.I & II
11	Frykenberg, R.E.	*Land Control and Social Structure in India*
12	Gaur, Madan	*India : 40 Years after Independence*
13	Kothari, Rajni	*Caste in Indian Politics*
14	Krishnamurthi, J.	*Women in Colonial India*
15	Kumar, Ravindra	*Social History of Modern India*
16	Majumdar, Datta and Ray-Chowdhary (eds.)	*Advanced History of India*
17	Mishra, B.B.	*The Indian Middle Classes : Their Growth in Modern Times*
18	Mishra, Girish	*Economic History of Modern India*
19	Mittal, S.C.	*Bharat Ka Saamajik aur Aarthik Itihas (1758-1947)*
20	Mukherjee, Nilmani	*Ryotwari System in Madras 1792-1827*
21	Nurullah, S. & J.P. Naik	*History of Education in India*
22	O' Malley, L.S.S.	*Modern India and the West*
23	Rao, M. S. A.	*Social Movement in India,* Vol. I
24	Rao, U. Bhaskar	*The Story of Rehabilitation*
25	Raychaudhuri, Tapan and Irfan	*The Cambridge Economic History of India,*

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	Habib	Vol. I
26	Satyamurti, T.V.	*India Since Independence*
27	Sen, Sunil, K.	*Agrarian Relations in India, 1793-1947*
28	Shah, A.B. & C.R.M.,Rao	*Tradition and Modernity in India*
29	Spear, T. G. P.	*History of India,* Vol. II
30	Srinivas, M.N.	*Caste in India and Other Essays*
31	Srinivas, M.N.	*Social Change in Modern India*
32	Stein, Burton	*The Making of Agrarian Policy in British India, 1770-1900*
33	Tandon, B.B. & K.K.Tandon	*Indian Economy*

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B.A. (Hons.) III Semester (History)

Time: Three Hours Max. Marks: 90

Paper – I Ancient and Medieval World Internal Marks:10

Note:

4. Question paper will consist of 10 questions in all. The examiner will set 3 questions each from Section I, II and III. In Section IV there will be one compulsory question on map with internal choice. The candidates shall have to attempt 5 questions in all, selecting at least one question from each Sections.

5. The Paper will carry 100 marks out of which 10 marks will be reserved for internal assessment. Each question will therefore carry 18 marks. In case of map question, map work will carry 10 marks and the explanatory note on the map will carry 8 marks. For the blind candidates explanatory note on the map will carry 18 marks. They may also attempt any question from Sections I, II, and III in lieu of the map question.

SECTION – I

iv) Pre Historic Age: Paleolithic, Mesolithic and Neolithic
v) Bronze Age Civilizations: Egypt and Mesopotamia - Socio-Economic Structure, Science and Technology
vi) Iron Age Civilizations: Greek and Roman - Polity, Society and Economy

SECTION – II

vii) Origins of Feudalism in Western Europe; Manorial System; Conditions of Peasantry and Role of Church
viii) Rise of Urban Centres; Organisation of Handicraft Industries; Revival of Trade and Commerce
ix) Decline of Feudalism

SECTION – III

x) Arabia before Islam; Rise of Islam; Islam as a Social and Religious System
xi) Evolution of Islamic State upto Abbasids; Administration under Umayyads and Abbasids
xii) Society under Umayyad and Abbasids

SECTION – IV

Maps:

t) Important Sites of Bronze Age Civilizations
u) Important Towns of Greek Civilization
v) Important Towns of Roman Civilization
w) Extent of Arab Empire under Abbasids

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Books Recommended:

4. Ali, A. : *The Sprit of Islam*
5. Arnold, T. W. : *Preaching of Islam*
6. Bloch, March : *Feudal Society*, Vol. I and II
7. Burn, A.R. : *Pelican History of Greece*
8. Cipolla, Carlo M. : *Fontana Economic History of Europe*, Vol I-II
9. Deanesly, Margaret : *A History of Early Medieval Europe*
10. Farukhi, A. : *Prachin Aur Madyakalin Viswa Ka Itihaas* (Hindi)

11. Finley M. L. : *Ancient Economy*
12. Heaton, Herbert : *Economic History of Europe*
13. Hilton, Rodney : *Transition From Feudalism to Capitalism*
14. Hitti, P. K. : *Islam : A Way of life*
15. Hitti, P. K. : *History of the Arabs*
16. Jones, A.H. : *Constantine and Conversion of Europe*
17. Katz, Solomon : *The Decline of Rome and the Rise of Medieval Europe*
18. Keen, Maurice : *A History of Medieval Europe*
19. Kramer, S. N. : *The Sumerians*
20. Levy, R. : *The Social Structure of Islam*
21. Lewsis, Bernard : *The Arabs in History*
22. Montgomery, Watt : *Muhammad in Macca and Madina*
23. Muir, W. : *The Caliphate*
24. Shahu, K.P. : *Islam ka Udya Va Vikas* (Hindi)
25. Sourdel, Dominique : *Medieval Islam*
26. Thmpson, J. W. : *Middle Ages.* 2 Vols
27. Thomas, Arnold : *The Caliphate*
28. Virotam, Balmukund : *Madhyakalin Europe*
29. Wensinck, A.J. : *The Muslim Creed*

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Time: Three Hours Max. Marks: 90

Paper II: History of India (1526 – 1857) Internal Marks:10

Note:

(i) Question paper will consist of 10 questions in all. The examiner will set 3 questions each from Section I, II and III. In Section IV there will be one compulsory question on map with internal choice. The candidates shall have to attempt 5 questions in all, selecting at least one question from each Sections.

(ii) The Paper will carry 100 marks out of which 10 marks will be reserved for internal assessment. Each question will therefore carry 18 marks. In case of map question, map work will carry 10 marks and the explanatory note on the map will carry 8 marks. For the blind candidates explanatory note on the map will carry 18 marks. They may also attempt any question from Sections I, II, and III in lieu of the map question.

SECTION – I

1 Establishment of Mughal Empire: Babur
2 Sher Shah and his Administration
3 Akbar: Rajput Policy and Religious Policy
4 Aurangzeb: Relations with Rajputs and Religious Policy

SECTION – II

5 Deccan Policy of the Mughals and Their Relations with the Sikhs and the Marathas
6 Mughal Administration: Central and Provincial; Mughal Revenue System
7 Political Institutions: Mansabdari and Jagirdari Systems
8 Decline of Mughal Empire

SECTION- III

9 French and British Companies' Rivalry in India
10 Occupation of Bengal by the British: Battle of Plassey and Buxer
11 Consolidation of British Rule: Wellesley and Dalhousie
12 Uprising of 1857: Causes, Nature and Impact

SECTION – IV

MAPS:

1 Political Conditions of India in1526
2 Mughal Empire at the Death of Akbar (1605)
3 Mughal Empire at the Death of Aurangzeb (1707)
4 Majour Centres of Uprising of 1857

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Suggested Readings:

1) Bayly, C. A. : *Indian Society and Making of the British Empire: The New Cambridge History of India*, Vol. II
2) Bhattacharya, Sabyasachi chowdhary : *Adhunik Bharat Ka Arthik Itihas, 1850-1947* (Hindi)
3) Dey, U.N. : *Administration of Delhi Sultanate*
4) Dey, U.N. : *Mughal Administration*
5) Dharma Kumar (ed.) : *Cambridge Economic History of India*, Vol. II
6) Gordon, Stewart : *The Marathas, 1600-1818 : The New Cambridge History of India* Vol. IV
7) Hasan, Ibn : *Central Structure of Mughal India*
8) Heimsath, Charles : *Indian Nationalism and Hindu Social Reform*
9) Kulkarni, A. R. : *Medieval Maharastra*
10) Kulke, H and D. Rothemund : *History of India*
11) Majumdar, Datta and Ray – : *Advanced History of India*
12) Pandey, A. B. : *Later Medieval India*
13) Panigrahi, D. N. (ed.) : *Economiy, Society and Politics in Modern India*
14) Qunungr, K.R. : *Sher Shal and His Time*
15) Richards, John F. : *Mughal Empire: New Cambridge History of India*, Vol. V
16) Rizvi, S. A. A. : *The Wonder That Was India*
17) Sangwan, R.S. : *Jodhpur and the Later Mughals : 1707-1752*
18) Sarkar, J.N. : *Mughal Polity*
19) Satish Chandra : *Medieval India: From Sultanate to the Mughal*
20) Satish Chandra : *Mughal Religious Policies : Rajput to Daccan*
21) Shukla, R. L. (ed.) : *Adhunik Bharat Ka Ithas* (Hindi)
22) Spear, T. G. P. : *History of India*, Vol. II
23) Srivastava, M.P. : *Policies of the Great Mughals*
24) Stein, Burton : *Peasants, State and Society in Medieval South India*
25) Tripathi, K.P. : *Some Aspects of Muslim Administration*
26) Tripathi, R. P. : *Rise and Fall of Mughal Empire*
27) Verma, H. C. : *Madyakalin Bharat, 1540-1701*, Vol. I

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Time: Three Hours

Max. Marks: 90
Internal Marks:10

Paper III History of Europe (From French Revolution to Partition of Africa)

Note:

(i) Question paper will consist of 10 questions in all. The examiner will set 3 questions each from Section I, II and III. In Section IV there will be one compulsory question on map with internal choice. The candidates shall have to attempt 5 questions in all, selecting at least one question from each Sections.

(ii) The Paper will carry 100 marks out of which 10 marks will be reserved for internal assessment. Each question will therefore carry 18 marks. In case of map question, map work will carry 10 marks and the explanatory note on the map will carry 8 marks. For the blind candidates explanatory note on the map will carry 18 marks. They may also attempt any question from Sections I, II, and III in lieu of the map question.

SECTION – I

1 Europe on the Eve of the French Revolution
2 The French Revolution: Causes, Course and Effects
3 Napoleon Bonaparte: Domestic and Foreign Policies

SECTION – II

4 The Congress of Vienna (1815)
5 The Conservative Era 1815-1830
6 The Revolutions of 1830 and 1848

SECTION- III

7 Unification of Germany
8 Unification Italy
9 Partition of Africa

SECTION – IV

MAPS:

1 Political Conditions of Europe on the Eve of 1789
2 Political Settlement of Europe by Vienna Congress
3 Unification of Italy
4 Partition of Africa

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Suggested Readings:

1. Chauhan, D. S. : *Europe Ka Itihas* (Hindi)
2. Chauhan, D. S. : *Samkalin Europe* (Hindi)
3. Cipolla, Carlo M. : *Forntana Economic History of Europe,*Vols.I, II and III
4. Coleman, D. C. (ed.) : *Revisions in Mercantilism*
5. Davis, H. A. (ed.) : *Outline History of the World*
6. Dobb, Maurice : *Studies in the Development of Capitalism*
7. Fisher, H.A.L. : *A History of Europe*
8. Grant & Temperlay : *Europe in Nineteenth & Twentieth Centuries*
9. Gupta, Parthasarthi (ed.) : *Adhunik Paschim Ka Uday* (Hindi)
10. Gupta, Parthasarthi (ed.) : *Europe Ka Itihas* (Hindi)
11. Henderson, O. P. : *The Industrial Revolution On the Continent*
12. Hill, Christopher : *A Century of Revolution*
13. Hill, Christopher : *From Reformation to Industrial Revolution*
14. Hilton, Rodney : *Transition From Feudalism to Capitalism*
15. Keenigsberger, H. G. and Mosse, G. L : *Europe in the Sixteenth Century*
16. Langer, W. L. : *Diplomacy of Imperialism*
17. Parker, G. : *Europe in Crisis 1598-1648.*
18. Parker, G. and Smith L. M. : *General Crisis of the Seventeenth Century*
19. Poliselky, V. : *War and Society in Europe 1618 – 1648*
20. Robb, Theodore K. : *The Struggle for Stability in Early Modern Europe*
21. Saboul, A. : *The French Revolution*
22. Stavrianes, L. S. : *The World Since 1500*
23. Stephen, J. Lee. : *Aspects of European History 1494-1789*
24. Thomson David : *Europe Since Nepolean*

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B.A. (Hons.) IV Semester (History)

Time: Three Hours | Max. Marks: 90
Paper – I Rise of Modern World | Internal Marks:10

Note:

(i) Question paper will consist of 10 questions in all. The examiner will set 3 questions each from Section I, II and III. In Section IV there will be one compulsory question on map with internal choice. The candidates shall have to attempt 5 questions in all, selecting at least one question from each Sections.

(ii) The Paper will carry 100 marks out of which 10 marks will be reserved for internal assessment. Each question will therefore carry 18 marks. In case of map question, map work will carry 10 marks and the explanatory note on the map will carry 8 marks. For the blind candidates explanatory note on the map will carry 18 marks. They may also attempt any question from Sections I, II, and III in lieu of the map question.

(iii)

SECTION – I

1 Transition from Feudalism to Capitalism: Theories and Problems
2 Renaissance: Its Social Roots ; City States of Italy, Spread of Humanism in Europe and its Results
3 Reformation: Origins and Results

SECTION – II

4 Early Colonial Expansion : Motives, Process and Consequences of Colonization in Americas
5 Economic Development during 16th Century; Shift of Economic Balance from the Mediterranean to Atlantic Region
6 Mercantilism: Origins, Nature and Consequences

.

SECTION – III

7 Glorious Revolution of 1688
8 Agrarian Revolution
9 Industrial Revolution

SECTION – IV

Maps:

1 City States of Italy
2 Important Centres of Renaissance
3 Important Centres of Reformation
4 Major Places connected with Industrial Revolution

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Suggested Readings:

1	Chauhan, D. S.	*Europe Ka Itihas* (Hindi)
2	Chauhan, D. S.	*Samkalin Europe* (Hindi)
3	Cipolla, Carlo M	*Before the Industrial Revolution, European Society and Economy,1000-1700*
4	Cipolla, Carlo M.	*Forntana Economic History of Europe,* Vols II and III.
5	Coleman, D. C. (ed.)	*Revisions in Mercantilism*
6	Davis, H. A. (ed.).	*Outline History of the World*
7	Davis, Ralph	*The Rise of the Atlantic Economics*
8	Dobb, Maurice	*Studies in the Developments of Capitalism*
9	Fisher, H.A.L.	*A History of Europe*
10	Gupta, Parthasarthi (ed.)	*Adhunik Paschim Ka Uday* (Hindi)
11	Gupta, Parthasarthi (ed.)	*Europe Ka Itihas* (Hindi)
12	Hall, J.R.	*From Galileo to Newton*
13	Henderson, O. P.	*The Industrial Revolution On the Continent*
14	Hill, Christopher	*From Reformation to Industrial Revolution*
15	Hilton, Rodney	*Transition From Feudalism to Capitalism*
16	Hobsbawm, E.J.	*The Age of Revolution*
17	Hobsbawn, E.J.	*Nation and Nationalism*
18	Keenigsberger, H.G. and G. L. Mosse	*Europe in the Sixteenth Century*
19	Morgan, K.O.	*Oxford Illustrated History of Britain, 1789-1983*
20	Parker, G.	*Europe in Crisis 1598-1648*
21	Parker, G. and L. M. Smith	*General Crises of the Seventeenth Century*
22	Parry, J.P.	*The Age of Reconnaissance*
23	Porter, Andrew	*European Imperialism, 1860-1914*
24	Rabb, Theodore K.	*The Struggle for Stability in Early Modern Europe.*
25	Roberts, J.M.	*Europe 1880-1945*
26	Stavrianes, L. S.	*The World Since 1500*
27	Stephen, J. Lee.	*Aspects of European History 1494-1789*
28	Wood, Anthony	*History of Euorpe 1915-1960*

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Time: Three Hours Max. Marks: 90

Paper II: Socio-Economic History of India (1526 – 1857) Internal Marks:10

Note:

(i) Question paper will consist of 10 questions in all. The examiner will set 3 questions each from Section I, II and III. In Section IV there will be one compulsory question on map with internal choice. The candidates shall have to attempt 5 questions in all, selecting at least one question from each Sections.

(ii) The Paper will carry 100 marks out of which 10 marks will be reserved for internal assessment. Each question will therefore carry 18 marks. In case of map question, map work will carry 10 marks and the explanatory note on the map will carry 8 marks. For the blind candidates explanatory note on the map will carry 18 marks. They may also attempt any question from Sections I, II, and III in lieu of the map question. .

SECTION – I

1 Social Structure: Ruling Class, Religious Class, Peasants and Artisans
2 Position of Women
3 Bhakti Movement and Sufism: Salient Features
4 Educational System: Art and Architecture

SECTION – II

5 Village Community; System of Agriculture
6 Handicraft Industry; Trade and Commerce
7 Standard of Living
8 Currency System of the Mughals

SECTION- III

9 Land Revenue Systems of the British : Permanent Settlement, Rayotwari System and Mahalwari System.
10 Decline of Handicraft Industry
11 Western Education
12 Introduction of Railways

SECTION – IV

MAPS:

1 Major Urban Centres during the Mughal Period
2 Major Internal Trade Routes under the Mughals
3 Centres of Major Mughal Monumants
4 Jurisdiction of Permanent Settlement

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Suggested Readings:

1. Banga, Indu and Jaidev (ed.). : *Cultural Reorientation in Modern India*
2. Bayly, C. A. : *Indian Society and the Making of the British Empire: The New Cambridge History of India,* Vols. I & II
3. Chitnish, K.N. Chopra : *Social and Cultural History of Medieval India*
4. Das, A.C., B.N. Puri & P.N. : *Bharat Ka Samajik, Aarthik Aur Sanskritik Itihas,* (Hindi)
5. Desai, Z.A : *Indo-Islamic Architecture*
6. Gopal, S. : *The Permanent Settlement in Bengal and its Results*
7. Gordon, Stewart. : *The Marathas, 1600-1818 : The New Cambridge History of India,* Vol. IV
8. Kulkarni, A. R. : *Medieval Maharastra*
9. Rashid, A : *Society and Culture in Medieval India*
10. Richards, John F. : *Mughal Empire: New Cambridge History of India,* Vol. V
11. Satish Chandra. : *Medieval India: From Sultanate to the Mughals*
12. Sen, Sunil K. : *Agrarian Relations in India, 1793-1947.*
13. Sharma, G.N. : *Madhyakalin Bharat Ki Rajnitik Aur Aarthik Sansthayen (*Hindi)
14. Spear, T.G.P. : *History of India,* Vol. II
15. Srinivas, M.N. : *Social Change in Modern India*
16. Stein, Burton : *Peasants, State and Society in Medieval South India*
17. Tara Chand : *Bhartiya Sanskriti Par Islam Ka Prabhav*
18. Tripathi, R.P. : *Rise and Fall of Mughal Empire*
19. Verma, H. C. : *Madyakalin Bharat, 1540-1701* (Hindi),2 Vols. I & II

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Time: Three Hours

Max. Marks: 90
Internal Marks:10

Paper III History of Europe (From the Third French Republic to World War II)

Note:

(i) Question paper will consist of 10 questions in all. The examiner will set 3 questions each from Section I, II and III. In Section IV there will be one compulsory question on map with internal choice. The candidates shall have to attempt 5 questions in all, selecting at least one question from each Sections.

(ii) The Paper will carry 100 marks out of which 10 marks will be reserved for internal assessment. Each question will therefore carry 18 marks. In case of map question, map work will carry 10 marks and the explanatory note on the map will carry 8 marks. For the blind candidates explanatory note on the map will carry 18 marks. They may also attempt any question from Sections I, II, and III in lieu of the map question.

SECTION – I

1 The Development of Parliamentary Government; The Third French Republic
2 Development of Liberalism in Britain; Parliamentary Reforms
3 Russian Revolution (1905)

SECTION – II

4 The Eastern Question
5 International Relations; Diplomatic Alliances and Rivalries
6 The World War I: Causes, Nature and Consequences

SECTION- III

7 Bolshevik Revolution (1917): Causes and Impacts
8 Rise of Fascism and Nazism
9 World War II: Causes and Impacts

SECTION – IV

MAPS:

1 Political Conditions of Europe on the Eve of First World War
2 Major Countries related to the Eastern Questions
3 Powers involved in Triple Alliance and Triple Entente
4 Political Conditions of Europe on the Eve of Second World War

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Suggested Readings :

1	Carr, E. H.	*The Bolshevik Revolution, 1917-23*
2	Carr, E.H.	*1917 : Before and After*
3	Chauhan, D. S.	*Samkalin Europe* (Hindi)
4	Cipolla, Carlo M	*Before the Industrial Revolutio: European Society and Economy 1000-1700*
5	Cipolla, Carlo M.	*Forntana Economic History of Europe*, Vols. II and III
6	Davis, H. A. (ed.)	*Outline History of the World*
7	Dorpalen, Andreas	*Europe in the 20th Century*
8	Fisher, H.A.L.	*A History of Europe*
9	Gupta, Parthasarthi (ed.)	*Europe Ka Itihas* (Hindi)
10	Hill, Christopher	*A Century of Revolution*
11	Hinsley, F. H (ed.)	*Modern History: Material Progress and World Wide Problems*
12	Hobsbawm, E.J.	*The Age of Revolution*
13	Hobsbawm, E.J.	*Age of Extremes : The Short Twentieth Century (1914-1991)*
14	Joll, James	*Europe Since 1870*
15	Langer, W. L	*European Alliances and Alignments*
16	Langer, W. L.	*Diplomacy of Imperialism*
17	Lee, F. B.	*Europe Since 1914*
18	Mergan, R.P.	*German Social Democracy and The First International*
19	Morgan, K.O.	*Oxford Illustrated History of Britain (1789-1983)*, Volumes II
20	Porter, Andrew	*European Imperialism, 1860-1914*
21	Roberts, J.M.	*Europe 1880-1945*
22	Robertson, E.(ed.)	*The Origins of the Second World War*
23	Roth, J.J. (ed.)	*World War II : A Turning Point in Modern History*
24	Taylor, A. J. P.	*The Origins of the Second World War*

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25	Thompson, David	*Europe Since Napoleon*
26	Wiskemann, E.	*Europe of the Dictators*
27	Wood, Anthony	*History of Europe 1915-1960*

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Scheme of B.A. (Economics) Semester System w.e.f. 2011-12

2nd Year

Semester-III

Macro Economics – I	90	10

Semester-IV

Macro Economics –II	90	10

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B. A. Part II (Economics)
Semester- III
Paper 2: Macro Economics – I

Max. Marks: 90
Internal Asses.: 10
Time : 3 hours

Note: -The question paper will consist of 9 questions. The candidate will be asked to attempt 5 questions in all selecting one question each from the three units and the fourth question may be attempted from any unit. Question 1 shall be compulsory consisting of objective type (filling blanks, true/false, multiple choice) nine questions of two marks each and spread over the entire syllabus. All questions will carry equal marks.

Unit – I

Introduction to Macro Economics and National Income:

Macro Economics and Open Macro Economics; scope meaning importance and limitations. Concepts of National Income including potential GDP; measurement of National Income; product method; income method; expenditure method; their importance and limitations.

Unit – II

Determination of Income and Employment:

Say's law of market; classical theory of employment; Keynesian theory of employment; comparison between classical and Keynesian theory; Consumption function and its determinants; psychological law consumption; investment function: meaning kind and determinants; investment multiplier; marginal efficiency of capital; IS-LM analysis and aggregate Demand.

Unit – III

National Income Determinations and Open Economy:

Impact of changes in Govt. Expenditure and taxes. Investment multiplier; Accelerator; Trade Cycles: meaning faces causes and control; Samuelson and Hick's Theories of Trade Cycle; Growth models: Harrod - Domar Model:

Unit –IV

Monetary System:

The Demand and supply of money: concepts, functions and significance; Quantity Theory of Money; Fisher's Approach and Cambridge Quantity Theory; Keynesian Liquidity Theory of Money; Supply of Money: Meaning and Determinants; measuring the money supply; Money and Credit; Credit Creation; Money Multipliers; The structure of Central Banking; Instrument of money supply; Inflation money supply and nominal rate of interest; exchange reserves and money supply; The velocity of money

Suggested Readings:

1. R.G. Lipsey and K.A. Chrystal _Principles of Economics (9th Ed.) Oxford University Press.
2. Ackley, G (1978), Macroeconomics: Theory and Policy, Macmillan, New York.
3. Banson, W.a. (1989), Macroeconomic Theory and Policy (3rd Ed.), Harper & Row, New York.
4. Shapiro, E (1996), Macroeconomic Analysis Galgotia Publication, New Delhi.
5. Joseph E. Stiglitz and Carl E. Walsh (2002)Principles of Macroeconomics, W.W. Norton & Company, Inc., 500 Fifth Avenue, New York, N.Y. 10110.
6. Shapiro, E (1996), "Macroeconomc Analysis" Galgotia Publication, New Delhi.
7. Stiglitz J. E. and Carl E. Walsh (2002) Principles of Macroeconomcs, W.W. Norton & Company, New York.
8. Samuelson Paul and Nordhaus: (2005) " Economics" (18th ed.) Tata Hill Publishing Company, New Delhi.
9. Mankiw N. Gregory: (2007) "Principles of Economics", Thomson, Indian Reprint.
10. Lipsey R.G. and K.A. Ghristal (2007) "Economics", Oxford University Press. Oxford.

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11. Gppdwin Neva, J. A. Nelson & J. Harris (2009) “Macroeconomics in Context”, PHI Learining Pvt. Ltd, New Delhi.

12. Taylor Lance (2008), “Reconstructing Macroeconomics”, Viva Books, Harvard University Press, USA.

13. Dornbusch R, S. Ficher & R. Startz (2009) “Macro Economics” Tata McGraw Hill Publishing Company Ltd. New Delhi.

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B. A. Part II (Economics)
Semester- IV
Paper 2: Macro Economics – II

Max. Marks: 90
Internal Asses: 10
Time: 3 hours

Note: -The question paper will consist of 9 questions. The candidate will be asked to attempt 5 questions in all selecting one question each from the three units and the fourth question may be attempted from any unit. Question 1 shall be compulsory consisting of objective type (filling blanks, true/false, multiple choice) nine questions of two marks each and spread over the entire syllabus. All questions will carry equal marks.

Unit – I

Money Growth and Inflation:

The Classical Theory of Inflation; The classical Dichotomy and Monetary Neutrality; Case Studies: Money and Prices during four Hyper Inflations; The Inflations Tax; The fishers effect; The Cost of Inflation: A fall in purchasing power; Shoe Lather Cost; Menu Cost; Relative- price variability and the misallocation; Inflation induced Tax Distortions; case study: the free silver debate. Demand pull and cost push theories of Inflations; Effects and Control of Inflation.

Unit - II

Banking and Financial System:

Banking: Functions of Central Banks; Function of Commercial Banks; Recent Reforms in Banking Sector; The relationship between Saving, Investment and the Financial System. Present Value: Measuring the Time value of Money; Managing Risk and Asset Valuation: Basic Idea.

Unit - III

Public Economics:

Nature and Scope of Public Finance; The Principle of Maximum social advantage; Classifications; Canons and effects of Public Expenditure; Canons and Effects of Taxation; Impact and incidence of taxation; Characteristics of good taxation systems; Public debt: Sources and effects.
Market Failure: Market efficiency, Reasons for Market failure, Public goods and externalities.

Unit - IV

International Trade:

Interregional and International Trade; Theory comparative cost; Heckscher –Ohlin Theory; Gains from Trade; Their Measurement and Distribution; Trade as an engine of Economic Growth; Balance of Payment and balance of trade.

Suggested Readings:

1. Mankiw, Principles of Economics (4th Ed.), First Indian Reprint 2007, Printed and bounding India by Baba Barkha Nath Printers, Haryana. Chapter 30, Money Growth and Inflations, PP 661-687.
2. Mankiw, Principles of Economics (4th Ed.), First Indian Reprint 2007, Printed and bounding India by Baba Barkha Nath Printers, Haryana. Chapter 26, Saving, Investment and the Financial System, PP- 575-595, Chapter 27, the Basic Tools of Finance, PP- 597- 612.
3. R.G. Lipsey and K.A. Chrystal _Principles of Economics (9th Ed.) Oxford University Press.
4. Ackley, G (1978), Macroeconomics: Theory and Policy, Macmillan, New York.
5. Banson, W.a. (1989), Macroeconomic Theory and Policy (3rd Ed.), Harper & Row, New York.
6. Shapiro, E (1996), Macroeconomic Analysis Galgotia Publication, New Delhi.
7. Joseph E. Stiglitz and Carl E. Walsh (2002)Principles of Macroeconomics, W.W. Norton & Company, Inc., 500 Fifth Avenue, New York, N.Y. 10110.
8. Ackley, G (1978), Macroeconomics: Theory and Policy, Macmillan, New York
9. Stiglitz J. E. and Carl E. Walsh (2002) Principles of Macroeconomcs, W.W. Norton & Company, New York.
10. Samuelson Paul and Nordhaus: (2005) " Economics" (18th ed.) Tata Hill Publishing Company, New Delhi.
11. Lipsey R.G. and K.A. Ghristal (2007) "Economics", Oxford University Press. Oxford.
12. Goodwin Neva, J. A. Nelson & J. Harris (2009) "Macroeconomics in Context", PHI Learining Pvt. Ltd, New Delhi.
13. Taylor Lance (2008), "Reconstructing Macroeconomics", Viva Books, Harvard University Press, USA.
14. Dornbusch R, S. Ficher & R. Startz (2009) "Macro Economics" Tata McGraw Hill Publishing Company Ltd. New Delhi

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Scheme of B.A. IIst, (Economics Hons.) Semester System

B.A.Part-2

Semester-3

Paper-305 Money & Banking

Paper-306 Issues in Indian Economy

Paper-307 Development Economics & Planning

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B.A. 2nd (Eco. Hons.)
3RD SEMESTER
Paper - 305
Money & Banking

Theory Paper: 90
Internal assessment: 10

The Question paper will have Nine questions, including two questions from each unit. The candidate will be required to attempt **Five** questions in all. Question number one will be compulsory and it will have **nine** objective type questions (each carrying 2 marks) uniformly spread over entire syllabus. Out of the remaining eight questions (each carrying 18 marks), the candidate will be required to attempt four questions selecting one from each unit.

Unit-1

Money: Functions, Classification and Significance; Money Supply: Determinants, Alternative Measures of Money Supply in India (concepts only); Money and Capital Market: Structure, Instruments, Role; Developed and Under-Developed Money Markets.

Unit-2

Banking: Commercial Banks- Functions and Importance, Process of Credit Creation; The Reserve Banking of India: Functions and Instruments of credit control, Recent Monetary Policy of RBI.

Unit-3

Financial sector: Money and Capital Markets in India: Structure, Functions and Significance; SEBI: Powers and Functions; Non-Bank Financial Intermediaries- Role and Significance; Recent Financial Sector Reforms in India.

Unit-4

Exchange Rate Determination: Fixed and Flexible, Theories of Exchange Rate: Mint Par, Purchasing Power Parity, Balance of Payments Theory.

Suggested Reading:

1. Bailey Roy (2005) The Economics of Financial Markets
2. D.M. Mithani: Money, Banking and Public Finance
3. A.D. Bain (1992) **Economics of the Financial System**
4. Suraj.B.Gupta**: *Monetary Economics*** - Institutions, Theory & Policy;S Chand publications
5. Suraj.B.Gupta:Monetary Planning for India
6. Khan,MY: Indian Financial System;Tata-McGrawhill
7. M.K. Lewis (2000), *Monetary Economics*, OUP
8. M.R. Baye, D.W. Jansen (1996), *Money Banking and Financial Markets*, AITBS, (Indian Edition)
9. Maurice Levi (1999), *International Finance*, Tata McGraw Hill
10. L.M. Bhole (1999), *Financial Institutions and Markets*, Tata Mcgraw Hill

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11. R.R.Paul "Monetary Economics"
12. R.B.I. *Bulletin, Annual Report*; *Report on Currency and Finance*
13. R.B.I. - Report of the Committee on the Financial System (Narasimham Committee Report I)

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B.A. 2nd (ECO. HONS)
3rd SEMESTER
Paper - 306
Issues in Indian Economy

Theory Paper: 90
Internal assessment: 10

The Question paper will have Nine questions, including two questions from each unit. The candidate will be required to attempt **Five** questions in all. Question number one will be compulsory and it will have **nine** objective type questions (each carrying 2 marks) uniformly spread over entire syllabus. Out of the remaining eight questions (each carrying 18 marks), the candidate will be required to attempt four questions selecting one from each unit.

Unit-1

Basic Issues: Over population, poverty, unemployment, inequality, urbanization and Problems of civic amenities, Backwardness, rural- urban migration.

Unit-2

Regional Issues in India's Economic Development: Regional imbalances and Economic backwardness, Causes and remedies.

Haryana Economy: Basic Features, Growth and Sectoral Distribution of State Domestic Product. (SDP); Declining sex- Ratio and its social and economics implications; Regional disparities in Haryana; Globalization in Haryana Economy: Concept of effective cities and poverty eradication in haryana.

Unit-3

Human Resource Development: Role of Education and health: issues, problems & policies; Labor productivity: Issues, policies and programmes, Gender and Development.

Unit-4

Economic Reforms in India: Liberalization, privatization and Globalization: Need & Rationale; An Appraisal of Economic reforms in India; Competitiveness of Indian trade and Industry: Special Economic Zones, Highlights of Current Five Year Plan.

Suggested Readings:

1. M.P. Todaro & Smith, Economic Development in the Third World. Addison-Wesley. 6th ed.
2. Uma kapila, Indian Economy: Issues in Development and Planning & Sectoral Aspects (2005). Academic Foundation.
3. Arvind Virmani. Accelerating Growth and Poverty reduction: A Policy Framework for India's Development (2004)
4. Government of India, Economic Survey (latest)
5. Government of India, Five Year Plan, (latest)
6. Government of India. Finance Commission Report (Latest Ed.)
7. Ray, Debraj, (1998)Development Economics, Princeton University Press,
8. Banerjee, Abhijit, Ronald Benabon and Dilip Mookerjee (ed.), Understanding Poverty, OUP, 2006.
9. Statistical Abstract Haryana and Economic Survey of Haryana published by Department of Economic and Statistical Analysis Haryana (latest)
10. Datt, Rudar & K.P. Sundaram, "Indian Economy" S. Chand & Company (Latest Ed.).
11. Mishra S. K. & V. K. Puri, "Indian Economy", Himalya Publishing House (Latest Ed.).

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B.A. 2nd (ECO. HONS)
3rd SEMESTER
Paper-307
Development Economics & Planning

Theory paper: 90
Internal assessment: 10

The Question paper will have Nine questions, including two questions from each unit. The candidate will be required to attempt **Five** questions in all. Question number one will be compulsory and it will have **nine** objective type questions (each carrying 2 marks) uniformly spread over entire syllabus. Out of the remaining eight questions (each carrying 18 marks), the candidate will be required to attempt four questions selecting one from each unit.

Unit-1

Basic Concepts of Economic Development: Economic growth and Development, concept of underdevelopment and Basic Characteristics; Determinants & Measurement of economic development; Sustainable economic development.

Unit-2

Theories of Economic Development: Adam Smith, Mill, Other theories (Karl Marx, Schumpeter

Unit-3

Different Approaches to Development: Vicious Circle of Poverty, Lewis' dual economy model, Leibenstein critical minimum effort theory, balanced vs. unbalanced growth theories.

Unit-4

Economic Planning and Policy: Development Planning: Rationale, Strategies and objectives of Planning; Role of State &Capital formation in economic development.

Suggested Readings:

1. Adelman, I, (1961), Theories of Economics Growth and Development, Stanford University Press, Stanford.
2. Barro, R. and X. Salai- Martin, Economics Growth, McGraw Hill, New York.
3. Chakravarti, S. (1982), Alternative Approaches to the Theory of Economic Growth, Oxford University Press, New Delhi.
4. Ghatak, S. (1986), An Introduction to Development Economics, Allen and Unwin, London.
5. Higgins, B.(19590, Economic Development, W.W. Norton, New York.
6. Kindleberger, C. P. (1977), Economics Development, (3rd Edition), McGraw Hill, New York.
7. Meier, G.M. and J.E. Rauch (2005), Leading Issues in Economics Development, (8th Edition), Oxford University Press, New Delhi.
8. Todaro, M.P. and S.C. Smith (2003), (8th Edition), Economics Development, Pearson Education, Delhi.
9. Thirlwal, A.P. (1999), (6th Edition), Growth and Development, Macmillan, U.K.
10. Mishra S.K. and V.K. Puri 'Economics Development and Planning. (Latest Edition)
11. Myer and Taneja 'Economics Development and Planning (latest Edition). Kalyani Publishers.
12. Lekhi, R.N. 'Economics of Development and Planning', (Latest Edition)

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B.A. II (Semester - III)

Paper- Rural Industrialization

Max. Marks : 100
Theory : 90 Marks
Internal Assessment : 10 Marks

Location and Management - I

Note: -The question paper will consist of 9 questions. The candidate will be asked to attempt 5 questions in all selecting one question each from the three units and the fourth question may be attempted from any unit. Question 1 shall be compulsory consisting of objective type (filling blanks, true/false, multiple choice) nine questions of two marks each and spread over the entire syllabus. All questions will carry equal marks.

Unit - I

Industrial location – importance and difficulties. Factors affecting industrial location.

Raw Material – Classification, significance and problems related to rural industries.

Marketing – Importance, functions and problems regarding marketing in rural industries.

Unit - II

Skilled labour – Concepts, importance and problems; characteristics of rural Indian labour; factors affecting efficiency.

Management – General functions, concepts, need, types and difficulties.

Unit - III

Finance – Sources and problems in obtaining finance for rural industries. HSIIDC, SIDBI, SFCs.

Quality Control - Objectives, methods, significance and problems in small scale sector

Unit - IV

District Industries Centre - functions, role and evaluation.

Role of Self-Help Groups and micro-financial Institutions in economic development.

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B.A. II (Semester - IV)

Paper- Rural Industrialization

Max. Marks : 100
Theory : 90 Marks
Internal Assessment : 10 Marks

Location, Management and Govt. Policies

Note: -The question paper will consist of 9 questions. The candidate will be asked to attempt 5 questions in all selecting one question each from the three units and the fourth question may be attempted from any unit. Question 1 shall be compulsory consisting of objective type (filling blanks, true/false, multiple choice) nine questions of two marks each and spread over the entire syllabus. All questions will carry equal marks.

Unit - I

Elementary ideas of a survey report: Objectives, preparation of questionnaire, data compilation and presentation.

Salient features of technical and market feasibility studies.

Unit – II

Financial Feasibility: Total cost of project, means of finance, fix costs, variable costs and break even analysis.

Main contents and preparation of Project Report.

Unit - III

Industrial Estates: Concepts, objectives advantages and progress under Five Year Plans. Working, significance and operational difficulties.

National Programme for Rural Industrialisation - objectives and schemes offered.

Unit - IV

Backward area development and rural Industrialisation- Need and operational difficulties.

Sickness of small scale sector – causes, implications and remedial measures.

Gandhian philosophy of rural Industrialisation.

Practical: After having elementary ideas about survey, feasibility and project report the students would start working or their individual projects to be submitted by 15th April of the succeeding year.

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Kurukshetra University, Kurukshetra

B.A. (General) Part-II, Political Science (Semester-Wise)

Scheme of Examination w.e.f. 2011-12

Option	Nomenclature	Class	Internal Assessment	External Marks	Total Marks	Time
One Option may be chosen from the following Options:-						
Option-I	Western Political Thinkers-I	Semester-III	10	90	100	3 Hours
	Western Political Thinkers-II	Semester-IV	10	90	100	3 Hours
Option-II	Indian Political Thinkers-I	Semester-III	10	90	100	3 Hours
	Indian Political Thinkers-II	Semester-IV	10	90	100	3 Hours

Syllabus and Courses of Reading w.e.f. 2011-2012

Semester-III, Option-I: Western Political Thinkers-I

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit-I Plato & Aristotle

Unit-II St. Augustine and Machiavelli

Unit-III Hobbes, Locke & Rousseau

Unit-IV Bentham and J.S. Mill

Note: ***Internal Assessment*** Max. Marks: 10

Readings

1. A. Ashcraft, *Revolutionary Politics,* London, Allen and Unwin, 1986.
2. A. Ashcraft, *Locke's Two Treatises of Government*, London Unwin and Hyman, 1987.
3. Sir E. Barker, *The Political Thought of Plato and Aristotle*, New York, Dover Publications, 1959.
4. A. Avineri, *The Social and Political Thought of K. Marx,* New Delhi, S. Chand and Co., 1979.
5. Sir E. Barker, *Greek Political Theory: Plato and His Predecessors,* New Delhi, B.I. Publications, 1964.

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6. Sir E. Barker, *The Politics of Aristotle*,(Translated with Introduction, Notes and Appendix), Oxford, Oxford University Press, 1995.

7. R.N. Berki, *The History of Political Thought: A Short Introduction*, London, Dent., 1977.

8. K.C. Brown (ed.), Hobbes' Studies, *Cambridge Massachusetts*, Harvard University Press., 1965.

9. J.H. Burns (ed.), *The Cambridge History of Political Thought, 1450-1700*, Cambridge, Cambridge University Press, 1991.

10. H. Butterfield, *The Statecraft of Machiavelli*, New York, Collier, 1962.

11. J.W. Chapman, *Rousseau-Totalitarian or Liberal, New York*, Columbia University Press, 1956.

12. A. Cobban, *Rousseau and the Modern State*, London, Unwin University Books, 1964.

13. J. Coleman, *A History of Political Thought: From Ancient Greece to Early Christianity*, London, Blackwell, 2000.

14. M. Cowling, *Mill and Liberalism, Cambridge*, Cambridge University Press, 1963.

15. M. Curtis, *The Great Political Theories 2. Vols.*, New York, Avon., 1961.

16. W.L. Davidson, *Political Thought in England: The Utilitarians from Bentham, to Mill*, Oxford, Oxford University Press, 1957.

17. J.A. Dunning, *History and Political Theories*, New York, Macmillan, 1902.

18. M.B. Foster, W.T. Jones and L.W. Lancaster, *Masters of Political Thought*, 3 Vols., London, George G. Harrap and Co. Ltd., 1959.

19. R.G. Gettel, *History of Political Thought*, New York, Novell. & Co., 1924.

20. I.W. Hampsher-Monk, *Modern Political Thought from Hobbes to Marx. Oxford*, Basil Blackwell, 1992.

21. R. Harrison, *Benthm*, London, Routledge, 1983.

22. H.J. Laski, *Political Thought from Locke to Bentham*, Oxford, Oxford University Press, 1920.

23. D. Mclellan, *Karl Marx: The First 100 Years*, London, Fontana, 1983.

24. K.R. Minogue, *Hobbes' Leviathan*, New York, Everyman's Library 1977.

25. S. Mukerjee and S. Ramaswamy, *A History of Political Thought: Plato to Marx*, New Delhi, Prentice Hall, 1999.

26. A. Ryan, J.S. Mill, *London*, Routledge and Kegan Paul, 1974.

27. G.H. Sabine, *History of Political Theory*, 4th edn., Revised by T.L. Thorson, New Delhi, Oxford and IBH, 1973.

28. S.B. Smith, *Hegel's Critique of Liberalism*, Chicago, University of Chicago Press, 1989.

29. L. Strauss, *Thoughts ON Machiavelli*, Chicago, University of Chicago Press, 1958.

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30. N. Warburton, J. Pike and D. Matravers, *Reading Political Philosophy: Machiavelli to Mill*, London, Routledge in Association with Open University, 2000.

Semester-III, Option- II: Indian Political Thinkers-I

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit-I Raja Ram Mohan Ray & Swami Dayanand,
Unit-IV Dada Bhai Narojee & Gopal Krishan Gokhle
Unit-II Swami Vivekanand & Aurbind Ghosh
Unit-III Lala Lajpat Rai & Bal Gangadhar Tilak

Note: ***Internal Assessment*** Max. Marks: 10

Readings

1. A.S. Altekar, *State and Government in Ancient India*, Delhi, Motilal Banarsidass, 1966.
2. A.Appadorai, *Documents on Political Thought in Modern India*, 2 Vols., Bombay Oxford University Pres, 1970.
3. S. Ghose, *Modern Indian Political Thought*, Delhi, Allied, 1984.
4. U.N. Ghoshal, *A History of Indian Political Ideas*, London, Oxford University Pres, 1959.
5. K.P. Jayaswal, *Hindu Polity*, Calcuta, Butterworth, 1924.
6. R. P. Kangle, *Arthashastra of Kautilya*, Delhi, Motilal Bansarsidass, 1965.
7. M.J. Kanetkar, *Tilak and Gandhi: A Comparative Study*, Nagpur, Author, 1935.
8. V.B. Karnik, *M.N. Roy: Political Biography*, Bombay, Jagriti, 1978.
9. K. P. Karunakaran, *Modern Indian Political Tradition*, New Delhi, Allied Publishers, 1962.
10. V.R. Mehta, *Foundations of Indian Political Thought*, New Delhi, Manohar, 1992.
11. T. Pantham, and K. Deustch (eds), *Political Thought in Modern India*, New Delhi, Sage, 1986.
12. B. Parekh and T. Pantham (eds), *Political Discourse: Exploration in Indian and Western Political Thought*, New Delhi, Sage, 1987.
13. D.P. Roy, *Leftists Politics in India: M. N. Roy and the Radical Democratic Party*, Calcutta, Minerva, 1989.
14. B.S. Sharma, *The Political Philosophy of M.N. Roy, Delhi*, National Publishing House, 1965.
15. V.P. Verma, *Studies in Hindu Political Thought and its Metaphysical Foundations*, Delhi, Motilal Banarsidass, 1974.
16. A.S. Altekar, State and Government in Ancient India, Delhi, Motilal Banarsidass, 1966.

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17. A.Appadorai, Documents on Political Thought in Modern India, 2 Vols., Bombay Oxford University Pres, 1970.
18. S. Ghose, Modern Indian Political Thought, Delhi, Allied, 1984.
19. U.N. Ghoshal, A History of Indian Political Ideas, London, Oxford University Pres, 1959.
20. K.P. Jayaswal, Hindu Polity, Calcuta, Butterworth, 1924.
21. R. P. Kangle, Arthashastra of Kautilya, Delhi, Motilal Bansarsidass, 1965.
22. M.J. Kanetkar, Tilak and Gandhi : A Comparative Study, Nagpur, Author, 1935.
23. V.B. Karnik, M.N. Roy : Political Biography, Bombay, Jagriti, 1978.
23. K. P. Karunakaran, Modern Indian Political Tradition, New Delhi, Allied Publishers, 1962.
24. V.R. Mehta, Foundations of Indian Political Thought, New Delhi, Manohar, 1992.
25. T. Pantham, and K. Deustch (eds), Political Thought in Modern India, New Delhi, Sage, 1986.
26. B. Parekh and T. Pantham (eds), Political Discourse : Exploration in Indian and Western Political Thought, New Delhi, Sage, 1987.
27. D.P. Roy, Leftists Politics in India : M. N. Roy and the Radical Democratic Party, Calcutta, Minerva, 1989.
28. B.S. Sharma, The Political Philosophy of M.N. Roy, Delhi, National Publishing House, 1965.
29. V.P. Verma, Studies in Hindu Political Thought and its Metaphysical Foundations, Delhi, Motilal Banarsidass, 1974.

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Semester-IV, Option-I: Western Political Thinkers-II

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit-I Hegal and Karl Marx
Unit-II Lenin and Mao-Tse-Tung
Unit-III GDH Cole and Harold Laski
Unit-IV John Rowls and Robert Nozik

Note: ***Internal Assessment*** Max. Marks: 10

Readings

1. A. Ashcraft, *Revolutionary Politics*, London, Allen and Unwin, 1986.
2. A. Ashcraft, *Locke's Two Treatises of Government*, London Unwin and Hyman, 1987.
3. Sir E. Barker, *The Political Thought of Plato and Aristotle*, New York, Dover Publications, 1959.
4. A. Avineri, *The Social and Political Thought of K. Marx*, New Delhi, S. Chand and Co., 1979.
5. Sir E. Barker, *Greek Political Theory: Plato and His Predecessors*, New Delhi, B.I. Publications, 1964.
6. Sir E. Barker, *The Politics of Aristotle*,(Translated with Introduction, Notes and Appendix), Oxford, Oxford University Press, 1995.
7. R.N. Berki, *The History of Political Thought: A Short Introduction*, London, Dent., 1977.
8. K.C. Brown (ed.), Hobbes' Studies, *Cambridge Massachusetts*, Harvard University Press., 1965.
9. J.H. Burns (ed.), *The Cambridge History of Political Thought, 1450-1700*, Cambridge, Cambridge University Press, 1991.
10. H. Butterfield, *The Statecraft of Machiavelli*, New York, Collier, 1962.
11. J.W. Chapman, *Rousseau-Totalitarian or Liberal, New York*, Columbia University Press, 1956.
12. A. Cobban, *Rousseau and the Modern State*, London, Unwin University Books, 1964.
13. J. Coleman, *A History of Political Thought: From Ancient Greece to Early Christianity*, London, Blackwell, 2000.
14. M. Cowling, *Mill and Liberalism, Cambridge*, Cambridge University Press, 1963.
15. M. Curtis, *The Great Political Theories 2. Vols.*, New York, Avon., 1961.
16. W.L. Davidson, *Political Thought in England: The Utilitarians from Bentham, to Mill*, Oxford, Oxford University Press, 1957.
17. J.A. Dunning, *History and Political Theories*, New York, Macmillan, 1902.
18. M.B. Foster, W.T. Jones and L.W. Lancaster, *Masters of Political Thought*, 3 Vols., London, George G. Harrap and Co. Ltd., 1959.

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19. R.G. Gettel, *History of Political Thought*, New York, Novell. & Co., 1924.
20. I.W. Hampsher-Monk, *Modern Political Thought from Hobbes to Marx. Oxford*, Basil Blackwell, 1992.
21. R. Harrison, *Benthm*, London, Routledge, 1983.
22. H.J. Laski, *Political Thought from Locke to Bentham*, Oxford, Oxford University Press, 1920.
23. D. Mclellan, *Karl Marx: The First 100 Years*, London, Fontana, 1983.
24. K.R. Minogue, *Hobbes' Leviathan*, New York, Everyman's Library 1977.
25. S. Mukerjee and S. Ramaswamy, *A History of Political Thought: Plato to Marx*, New Delhi, Prentice Hall, 1999.
26. A. Ryan, J.S. Mill, *London*, Routledge and Kegan Paul, 1974.
27. G.H. Sabine, *History of Political Theory*, 4th edn., Revised by T.L. Thorson, New Delhi, Oxford and IBH, 1973.
28. S.B. Smith, *Hegel's Critique of Liberalism*, Chicago, University of Chicago Press, 1989.
29. L. Strauss, *Thoughts ON Machiavelli*, Chicago, University of Chicago Press, 1958.
30. N. Warburton, J. Pike and D. Matravers, *Reading Political Philosophy: Machiavelli to Mill*, London, Routledge in Association with Open University, 2000.

Semester-IV, Option-II: Indian Political Thinkers-II

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit-I J.P. Narayan & Ram Manohar Lohia
Unit-II Mahatma Gandhi & M.N, Roy
Unit-III Jawaharlal Nehru & B,R,Ambedkar
Unit-IV Subhash Chander Bose & Bhagat Singh

Note: ***Internal Assessment*** Max. Marks: 10

Readings

1. A.Appadorai, Indian Political Thinking Through the Ages, Delhi Khanna Publishers, 1992.
2. J. Bandhopahdyaya, Social and Political Thought of Gandhi, Bombay, Allied, 1969.
3. R.J. Cashman, The Myth of 'Lokmanya' Tilak and Mass Politics in Maharashtra, Berkeley, University of California Press, 1975.
4. Chandra, Nationalishm and Colonialism in Modern India, Delhi, Vikas, 1979.
5. K.Damodaran, Indian Thought : A Critical Survey, London, Asia Publishing House, 1967.

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6. D.G. Dalton, India's Idea of Freedom : Political Thought of Swami Vevekananda, Aurobindo Ghose, Mahatma Gandhi and Rabindranath Tagore, Delhi, Academic Press, 1982.
7. S. Ghose, The Renaissance to Militant Nationalism, Bombay, Allied Publishers, 1969.
8. S.Ghose, Socialism, Democracy and Nationalism in India, Bombay, Allied Publishers, 1973.
9. S. Ghose, Modern Indian Political Thought, Delhi, Allied, 1984.
10. U.N. Ghoshal, A History of Indian Political Ideas, London, Oxford University Press, 1959.
11. J.P. Haitheox, Communism and Nationalism in India : M.N. Roy and Comintern Policy, Princeton NJ, Princeton University Press, 1971.
12. Heimsath, Indian Nationalism and Social Reform, Princeton NJ, Princeton University Press, 1964.
13. R. Iyer, The Moral and Political Thought of Mahatma Gandhi, Delhi, Oxford University Press, 1973.
14. K.N. Kadam (ed.), Dr. B.R. Ambedkar, New Delhi, Sage, 1992.
15. K.P. Karunakaran, Modern Indian Political Tradition, New Delhi, Allied Publishers, 1962.
16. K.P. Karunakaran, Indian Politics from Dababhai Naoroji to Gandhi : A Study of Political Ideas of Modern India, New Delhi, Gitanjali, 1975.
17. U. Kaura, Muslims and Indian Nationalism, New Delhi, Manohar, 1977.
18. R.M. Lohia, Marx, Gandhi and Socialism, Hyderabad, Nav Hind, 1953.
19. V.R.Mehta, Foundations of Indian Political Thought, New Delhi, Manohar, 1992.
20. V.S. Narvane, Modern Indian Thought, New Delhi, Orient Longman, 1978.
21. J. Nehru, Discovery of India, London, Meridian Books, 1956.
22. D.P. Roy, Leftist Politics in India : M. N. Roy and the Radical Democratic Party, Calcutta, Minerva, 1989.
23. J. Sarkar, Indian Through the Ages : A Survey of the Growth of Indian Life and Thought, Calcutta, M.C. Sarkar and Sons, 1928.
24. B.S.Sharma, The Political Philosophy of M.N. Roy, Delhi, National Publishing House, 1965.
25. A.Tripathi, The Extremist Challenge, Bombay, Allied, 1967.
26. V.P. Verma, Modern Indian Political Thought, Agra, Lakshmi Narain Aggarwal, 1974

Kurukshetra University, Kurukshetra

B.A. (Hons.) Part-II, Political Science (Semester-Wise)

Scheme of Examination w.e.f. 2011-12

Paper	Nomenclature	Class	Internal Assessment	External Marks	Total Marks	Time
Paper-I	Western Political Thinkers-I	Semester-III	10	90	100	3 Hours
	Western Political Thinkers-II	Semester-IV	10	90	100	3 Hours
Paper-II	Indian Political Thinkers-I	Semester-III	10	90	100	3 Hours
	Indian Political Thinkers-II	Semester-IV	10	90	100	3 Hours
Paper-III	India's Foreign Policy-I	Semester-III	10	90	100	3 Hours
	India's Foreign Policy-II	Semester-IV	10	90	100	3 Hours

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Semester-III, Paper-I: Western Political Thinkers-I

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit-I Plato & Aristotal
Unit-II St. Augustine and Machiavelli
Unit-III Hobbes, Locke & Rousseau
Unit-IV Bentham and J.S. Mill

Note: ***Internal Assessment*** Max. Marks: 10

Readings

1. A. Ashcraft, *Revolutionary Politics*, London, Allen and Unwin, 1986.
2. A. Ashcraft, *Locke's Two Treatises of Government*, London Unwin and Hyman, 1987.
3. Sir E. Barker, *The Political Thought of Plato and Aristotle*, New York, Dover Publications, 1959.
4. A. Avineri, *The Social and Political Thought of K. Marx*, New Delhi, S. Chand and Co., 1979.
5. Sir E. Barker, *Greek Political Theory: Plato and His Predecessors*, New Delhi, B.I. Publications, 1964.
6. Sir E. Barker, *The Politics of Aristotle*,(Translated with Introduction, Notes and Appendix), Oxford, Oxford University Press, 1995.
7. R.N. Berki, *The History of Political Thought: A Short Introduction*, London, Dent., 1977.
8. K.C. Brown (ed.), Hobbes' Studies, *Cambridge Massachusetts*, Harvard University Press., 1965.
9. J.H. Burns (ed.), *The Cambridge History of Political Thought, 1450-1700*, Cambridge, Cambridge University Press, 1991.
10. H. Butterfield, *The Statecraft of Machiavelli*, New York, Collier, 1962.
11. J.W. Chapman, *Rousseau-Totalitarian or Liberal, New York*, Columbia University Press, 1956.
12. A. Cobban, *Rousseau and the Modern State*, London, Unwin University Books, 1964.
13. J. Coleman, *A History of Political Thought: From Ancient Greece to Early Christianity*, London, Blackwell, 2000.
14. M. Cowling, *Mill and Liberalism, Cambridge*, Cambridge University Press, 1963.
15. M. Curtis, *The Great Political Theories 2. Vols.*, New York, Avon., 1961.
16. W.L. Davidson, *Political Thought in England: The Utilitarians from Bentham, to Mill*, Oxford, Oxford University Press, 1957.
17. J.A. Dunning, *History and Political Theories*, New York, Macmillan, 1902.
18. M.B. Foster, W.T. Jones and L.W. Lancaster, *Masters of Political Thought*, 3 Vols., London, George G. Harrap and Co. Ltd., 1959.
19. R.G. Gettel, *History of Political Thought*, New York, Novell. & Co., 1924.
20. I.W. Hampsher-Monk, *Modern Political Thought from Hobbes to Marx. Oxford*, Basil Blackwell, 1992.
21. R. Harrison, *Benthm*, London, Routledge, 1983.
22. H.J. Laski, *Political Thought from Locke to Bentham*, Oxford, Oxford University Press, 1920.
23. D. Mclellan, *Karl Marx: The First 100 Years*, London, Fontana, 1983.
24. K.R. Minogue, *Hobbes' Leviathan*, New York, Everyman's Library 1977.
25. S. Mukerjee and S. Ramaswamy, *A History of Political Thought: Plato to Marx*, New Delhi, Prentice Hall, 1999.
26. A. Ryan, J.S. Mill, *London*, Routledge and Kegan Paul, 1974.

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27. G.H. Sabine, *History of Political Theory*, 4th edn., Revised by T.L. Thorson, New Delhi, Oxford and IBH, 1973.
28. S.B. Smith, *Hegel's Critique of Liberalism*, Chicago, University of Chicago Press, 1989.
29. L. Strauss, *Thoughts ON Machiavelli*, Chicago, University of Chicago Press, 1958.
30. N. Warburton, J. Pike and D. Matravers, *Reading Political Philosophy: Machiavelli to Mill*, London, Routledge in Association with Open University, 2000.

Semester-III, Paper- II: Indian Political Thinkers-I

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit-I Raja Ram Mohan Ray & Swami Dayanand,

Unit-IV Dada Bhai Narojee & Gopal Krishan Gokhle

Unit-II Swami Vivekanand & Aurbind Ghosh

Unit-III Lala Lajpat Rai & Bal Gangadhar Tilak

Note: ***Internal Assessment*** Max. Marks: 10

Readings

1. A.S. Altekar, *State and Government in Ancient India*, Delhi, Motilal Banarsidass, 1966.
2. A.Appadorai, *Documents on Political Thought in Modern India*, 2 Vols., Bombay Oxford University Pres, 1970.
3. S. Ghose, *Modern Indian Political Thought*, Delhi, Allied, 1984.
4. U.N. Ghoshal, *A History of Indian Political Ideas*, London, Oxford University Pres, 1959.
5. K.P. Jayaswal, *Hindu Polity*, Calcuta, Butterworth, 1924.
6. R. P. Kangle, *Arthashastra of Kautilya*, Delhi, Motilal Bansarsidass, 1965.
7. M.J. Kanetkar, *Tilak and Gandhi: A Comparative Study*, Nagpur, Author, 1935.
8. V.B. Karnik, *M.N. Roy: Political Biography*, Bombay, Jagriti, 1978.
9. K. P. Karunakaran, *Modern Indian Political Tradition*, New Delhi, Allied Publishers, 1962.
10. V.R. Mehta, *Foundations of Indian Political Thought*, New Delhi, Manohar, 1992.
11. T. Pantham, and K. Deustch (eds), *Political Thought in Modern India*, New Delhi, Sage, 1986.
12. B. Parekh and T. Pantham (eds), *Political Discourse: Exploration in Indian and Western Political Thought*, New Delhi, Sage, 1987.
13. D.P. Roy, *Leftists Politics in India: M. N. Roy and the Radical Democratic Party*, Calcutta, Minerva, 1989.
14. B.S. Sharma, *The Political Philosophy of M.N. Roy*, *Delhi*, National Publishing House, 1965.
15. V.P. Verma, *Studies in Hindu Political Thought and its Metaphysical Foundations*, Delhi, Motilal Banarsidass, 1974.
16. A.S. Altekar, State and Government in Ancient India, Delhi, Motilal Banarsidass, 1966.
17. A.Appadorai, Documents on Political Thought in Modern India, 2 Vols., Bombay Oxford University Pres, 1970.

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18. S. Ghose, Modern Indian Political Thought, Delhi, Allied, 1984.
19. U.N. Ghoshal, A History of Indian Political Ideas, London, Oxford University Pres, 1959.
20. K.P. Jayaswal, Hindu Polity, Calcuta, Butterworth, 1924.
21. R. P. Kangle, Arthashastra of Kautilya, Delhi, Motilal Bansarsidass, 1965.
22. M.J. Kanetkar, Tilak and Gandhi : A Comparative Study, Nagpur, Author, 1935.
23. V.B. Karnik, M.N. Roy : Political Biography, Bombay, Jagriti, 1978.
23. K. P. Karunakaran, Modern Indian Political Tradition, New Delhi, Allied Publishers, 1962.
24. V.R. Mehta, Foundations of Indian Political Thought, New Delhi, Manohar, 1992.
25. T. Pantham, and K. Deustch (eds), Political Thought in Modern India, New Delhi, Sage, 1986.
26. B. Parekh and T. Pantham (eds), Political Discourse : Exploration in Indian and Western Political Thought, New Delhi, Sage, 1987.
27. D.P. Roy, Leftists Politics in India : M. N. Roy and the Radical Democratic Party, Calcutta, Minerva, 1989.
28. B.S. Sharma, The Political Philosophy of M.N. Roy, Delhi, National Publishing House, 1965.
29. V.P. Verma, Studies in Hindu Political Thought and its Metaphysical Foundations, Delhi, Motilal Banarsidass, 1974.

Semester-III, Paper- III: India's Foreign Policy-I

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit: I Meaning of Foreign Policy: History, Principles and Objectives of India's Foreign Policy.

Unit: II Domestic and External Determinants of India's Foreign Policy.

Unit: III Structure and Process of Foreign Policy Making-Role of Cabinet and National Security Council, Ministry of External Affairs, Parliament and Intelligence Agencies.

Unit: IV India's Relations With Pakistan and China

Note: **Internal Assessment** Max. Marks: 10

Readings

1. R.S. Yadav, *Bharat Ki Videsh Niti: Ek Vishleshan* (in Hindi), Kitab Mahal, Allhabad, 2005.
2. R.S. Yadav & Suresh Dhanda, eds., *India's Foreign Policy: Contemporary Trends*, New Delhi, Shipra, 2009.
3. R.S. Yadav (ed.), *India's Foreign Policy Towards 2000 A.D.*, New Delhi, Deep & Deep, 1993.
4. J.N. Dixit, *Across Border: Fifty Years of India's Foreign Policy*, New Delhi, 1999.
5. J. Bandhopahdyaya, *The Making of India's Foreign Policy*, Calcutta, Allied, 1979.
6. V.P. Dutt, *India's Foreign Policy in a Changing World*, New Delhi, Vikas, 1999.
7. N.K. Jha (ed.), *India's Foreign Policy in a Changing World*, New Delhi, South Asian Publishers, 2000.
8. H. Kapur, *India's Foreign Policy : 1947-1993*, New Delhi, Sage, 1994.
9. N. Jetley, *India's Foreign Policy : Challenges and Prospects*, New Delhi, Janaki Prakashan, 1985.
10. S. Mansingh (ed.), *India's Foreign Policy in the 21st Century*, New Delhi, Foreign Policy Institute, 1999.
11. R. Thakur, *Politics and Economics of India's Foreign Policy*, Delhi, Oxford University Press, 1993.

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12. C. Raja Mohan, *Crossing The Rubicon: The Shaping of India's New Foreign Policy*, New Delhi, Viking, 2003.
13. N.S. Sisodia & C. Uday Bhaskar, eds., *Emerging India: Security and Foreign Policy Perspective*, New Delhi, Promilla, 2007.
14. Rajen Harshe & K.M. Seethi, eds., *Engaging with the World: Critical Reflections on India's Foreign Policy*, New Delhi, Orientlongman, 2005.
15. Anand Mathur & Sohanlal Meena, eds., *India Profile in Polycentric World Order*, Jaipur, RBSA, 2008.
16. Annpurna Nantiyal, ed., *Challenges to India's Foreign Policy in the New Era*, New Delhi, 2006.
17. Atish Sinha & Madhup Mahota, eds., *Indian Foreign Policy: Challenges and Opportunities*, New Delhi, Academic, 2007.

Semester-IV, Paper-I: Western Political Thinkers-II

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit-I Hegal and Karl Marx
Unit-II Lenin and Mao-Tse-Tung
Unit-III GDH Cole and Harold Laski
Unit-IV John Rowls and Robert Nozik

Note: ***Internal Assessment*** Max. Marks: 10

Readings

1. A. Ashcraft, *Revolutionary Politics*, London, Allen and Unwin, 1986.
2. A. Ashcraft, *Locke's Two Treatises of Government*, London Unwin and Hyman, 1987.
3. Sir E. Barker, *The Political Thought of Plato and Aristotle*, New York, Dover Publications, 1959.
4. A. Avineri, *The Social and Political Thought of K. Marx*, New Delhi, S. Chand and Co., 1979.
5. Sir E. Barker, *Greek Political Theory: Plato and His Predecessors*, New Delhi, B.I. Publications, 1964.
6. Sir E. Barker, *The Politics of Aristotle*,(Translated with Introduction, Notes and Appendix), Oxford, Oxford University Press, 1995.
7. R.N. Berki, *The History of Political Thought: A Short Introduction*, London, Dent., 1977.
8. K.C. Brown (ed.), Hobbes' Studies, *Cambridge Massachusetts*, Harvard University Press., 1965.
9. J.H. Burns (ed.), *The Cambridge History of Political Thought, 1450-1700*, Cambridge, Cambridge University Press, 1991.
10. H. Butterfield, *The Statecraft of Machiavelli*, New York, Collier, 1962.
11. J.W. Chapman, *Rousseau-Totalitarian or Liberal, New York*, Columbia University Press, 1956.
12. A. Cobban, *Rousseau and the Modern State*, London, Unwin University Books, 1964.
13. J. Coleman, *A History of Political Thought: From Ancient Greece to Early Christianity*, London, Blackwell, 2000.
14. M. Cowling, *Mill and Liberalism, Cambridge*, Cambridge University Press, 1963.
15. M. Curtis, *The Great Political Theories 2. Vols.*, New York, Avon., 1961.
16. W.L. Davidson, *Political Thought in England: The Utilitarians from Bentham, to Mill*, Oxford, Oxford University Press, 1957.
17. J.A. Dunning, *History and Political Theories*, New York, Macmillan, 1902.
18. M.B. Foster, W.T. Jones and L.W. Lancaster, *Masters of Political Thought*, 3 Vols., London, George G. Harrap and Co. Ltd., 1959.

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19. R.G. Gettel, *History of Political Thought*, New York, Novell. & Co., 1924.
20. I.W. Hampsher-Monk, *Modern Political Thought from Hobbes to Marx. Oxford*, Basil Blackwell, 1992.
21. R. Harrison, *Benthm*, London, Routledge, 1983.
22. H.J. Laski, *Political Thought from Locke to Bentham*, Oxford, Oxford University Press, 1920.
23. D. Mclellan, *Karl Marx: The First 100 Years*, London, Fontana, 1983.
24. K.R. Minogue, *Hobbes' Leviathan*, New York, Everyman's Library 1977.
25. S. Mukerjee and S. Ramaswamy, *A History of Political Thought: Plato to Marx*, New Delhi, Prentice Hall, 1999.
26. A. Ryan, J.S. Mill, *London*, Routledge and Kegan Paul, 1974.
27. G.H. Sabine, *History of Political Theory*, 4th edn., Revised by T.L. Thorson, New Delhi, Oxford and IBH, 1973.
28. S.B. Smith, *Hegel's Critique of Liberalism*, Chicago, University of Chicago Press, 1989.
29. L. Strauss, *Thoughts ON Machiavelli*, Chicago, University of Chicago Press, 1958.
30. N. Warburton, J. Pike and D. Matravers, *Reading Political Philosophy: Machiavelli to Mill*, London, Routledge in Association with Open University, 2000.

Semester-IV, Paper-II: Indian Political Thinkers-II

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit-I J.P. Narayan & Ram Manohar Lohia
Unit-II Mahatma Gandhi & M.N, Roy
Unit-III Jawaharlal Nehru & B,R,Ambedkar
Unit-IV Subhash Chander Bose & Bhagat Singh

Note: ***Internal Assessment*** Max. Marks: 10

Readings

27. A.Appadorai, Indian Political Thinking Through the Ages, Delhi Khanna Publishers, 1992.
28. J. Bandhopahdyaya, Social and Political Thought of Gandhi, Bombay, Allied, 1969.
29. R.J. Cashman, The Myth of 'Lokmanya' Tilak and Mass Politics in Maharashtra, Berkeley, University of California Press, 1975.
30. Chandra, Nationalishm and Colonialism in Modern India, Delhi, Vikas, 1979.
31. K.Damodaran, Indian Thought : A Critical Survey, London, Asia Publishing House, 1967.
32. D.G. Dalton, India's Idea of Freedom : Political Thought of Swami Vevekananda, Aurobindo Ghose, Mahatma Gandhi and Rabindranath Tagore, Delhi, Academic Press, 1982.
33. S. Ghose, The Renaissance to Militant Nationalism, Bombay, Allied Publishers, 1969.
34. S.Ghose, Socialism, Democracy and Nationalism in India, Bombay, Allied Publishers, 1973.
35. S. Ghose, Modern Indian Political Thought, Delhi, Allied, 1984.
36. U.N. Ghoshal, A History of Indian Political Ideas, London, Oxford University Press, 1959.
37. J.P. Haitheox, Communism and Nationalism in India : M.N. Roy and Comintern Policy, Princeton NJ, Princeton University Press, 1971.
38. Heimsath, Indian Nationalism and Social Reform, Princeton NJ, Princeton University Press, 1964.
39. R. Iyer, The Moral and Political Thought of Mahatma Gandhi, Delhi, Oxford University Press, 1973.
40. K.N. Kadam (ed.), Dr. B.R. Ambedkar, New Delhi, Sage, 1992.
41. K.P. Karunakaran, Modern Indian Political Tradition, New Delhi, Allied Publishers, 1962.
42. K.P. Karunakaran, Indian Politics from Dababhai Naoroji to Gandhi : A Study of Political Ideas of Modern India, New Delhi, Gitanjali, 1975.

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43. U. Kaura, Muslims and Indian Nationalism, New Delhi, Manohar, 1977.
44. R.M. Lohia, Marx, Gandhi and Socialism, Hyderabad, Nav Hind, 1953.
45. V.R.Mehta, Foundations of Indian Political Thought, New Delhi, Manohar, 1992.
46. V.S. Narvane, Modern Indian Thought, New Delhi, Orient Longman, 1978.
47. J. Nehru, Discovery of India, London, Meridian Books, 1956.
48. D.P. Roy, Leftist Politics in India : M. N. Roy and the Radical Democratic Party, Calcutta, Minerva, 1989.
49. J. Sarkar, Indian Through the Ages : A Survey of the Growth of Indian Life and Thought, Calcutta, M.C. Sarkar and Sons, 1928.
50. B.S.Sharma, The Political Philosophy of M.N. Roy, Delhi, National Publishing House, 1965.
51. A.Tripathi, The Extremist Challenge, Bombay, Allied, 1967.
52. V.P. Verma, Modern Indian Political Thought, Agra, Lakshmi Narain Aggarwal, 1974

Semester-IV, Paper- III: India's Foreign Policy-II

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit: I India's Relation with US and Russia

Unit: I I India and Non-Alignment; India and SAARC

Unit: III India and UN; and India and Disarmament

Unit: IV Assessment of India's Foreign Policy

Readings :

1. R.S. Yadav, *Bharat Ki Videsh Niti: Ek Vishleshan* (in Hindi), Kitab Mahal, Allhabad, 2005.
18. R.S. Yadav & Suresh Dhanda, eds., *India's Foreign Policy: Contemporary Trends*, New Delhi, Shipra, 2009.
19. R.S. Yadav (ed.), *India's Foreign Policy Towards 2000 A.D.*, New Delhi, Deep & Deep, 1993.
20. J.N. Dixit, *Across Border: Fifty Years of India's Foreign Policy*, New Delhi, 1999.
21. J. Bandhopahdyaya, *The Making of India's Foreign Policy*, Calcutta, Allied, 1979.
22. V.P. Dutt, *India's Foreign Policy in a Changing World*, New Delhi, Vikas, 1999.
23. N.K. Jha (ed.), *India's Foreign Policy in a Changing World*, New Delhi, South Asian Publishers, 2000.
24. H. Kapur, *India's Foreign Policy : 1947-1993*, New Delhi, Sage, 1994.
25. N. Jetley, *India's Foreign Policy : Challenges and Prospects*, New Delhi, Janaki Prakashan, 1985.
26. S. Mansingh (ed.), *India's Foreign Policy in the 21st Century*, New Delhi, Foreign Policy Institute, 1999.
27. R. Thakur, *Politics and Economics of India's Foreign Policy*, Delhi, Oxford University Press, 1993.
28. C. Raja Mohan, *Crossing The Rubicon: The Shaping of India's New Foreign Policy*, New Delhi, Viking, 2003.
29. N.S. Sisodia & C. Uday Bhaskar, eds., *Emerging India: Security and Foreign Policy Perspective*, New Delhi, Promilla, 2007.
30. Rajen Harshe & K.M. Seethi, eds., *Engaging with the World: Critical Reflections on India's Foreign Policy*, New Delhi, Orientlongman, 2005.
31. Anand Mathur & Sohanlal Meena, eds., *India Profile in Polycentric World Order*, Jaipur, RBSA, 2008.
32. Annpurna Nantiyal, ed., *Challenges to India's Foreign Policy in the New Era*, New Delhi, 2006.
33. Atish Sinha & Madhup Mahota, eds., *Indian Foreign Policy: Challenges and Opportunities*, New Delhi, Academic, 2007.

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Kurukshetra University, Kurukshetra

B.A. Part-II, Human Rights (Semester-Wise)

Syllabus and Courses of Reading w.e.f. 2011-2012

Semester-III

Paper-Societal Issues of Human Rights in India-I

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit: I Concepts and Approaches: Concept of Societal Problems and Human Rights.

Unit: II Theoretical approaches to Social problems and Social Changes.

Unit: III Social Problems: Causes and Types: Problems of Hierarchy. Problems of Minorities, Scheduled Caste and Scheduled Tribes; Population Explosion; Problems of Aged and Disabled; and Problems of Women.

Unit: IV Problems of Working Classes: Definition and Classification of working class; Status and exploitation of working class: (i) Casual Worker's (ii) Bonded Labour (iii) Agriculture Labour (iv) Migrant Workers (v) Child Labour (vi) Unorganized Lobour.

Note: ***Internal Assessment*** Marks: 10

Readings

1. ILO, (1974), *Migrant Workers.* Geneva, International Labor Office.
2. ILO, (1970), *Trade Union Rights and Their Relation to Civil Liberties*, Geneva: International Labor Office.
3. Jain, Mahavir (1997) *Bonded Labor Justice through Judiciary*.: Manak Publications, New Delhi
4. Jenks, C.W. (1960) *Human Rights and International Labor Standards,* Stevens London,.
5. Kumar, Bindal, (2000), *Problems of Working Children.* APII Publications, New Delhi
6. Mehta, P.L., (1996), *Child Labor and the law*, Deep and Deep, *(*New Delhi:
7. Prakash, S.S. (1990), Bonded Labor and Social Justice, Deep and Deep, New Delhi:
8. Sahoo, Umesh Ch. (1990) "*Child Labor and Legislation*", *Economic and Political Weekly, vol. XXV, no. 46, 17 November, pp. 2531-34.*

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9. Saksena, K.P. (1999) "*Recent Supreme Court Judgment on Child Labor: A Critique*", in K.P. Saksena (eds.), *Human Rights: Fifty Years of India's Independence*: Gyan Publishing House, New Delhi.

10. Sankaran, Kamala (1998) "Human Rights and the World of Work", *Journal of Indian Law Institute, vol.40 nos. 1-4*

11. Saxsena, Anu ,(2002), *Human Rights and Child Labor in Indian Industries*, Shipra, New Delhi:

12. Sharma, A.K. (1995) " *Human Rights Violations of Street Children and Child Labor in New Delhi*", In B. P. Singh Seghal (ed.) *Human Rights in India: Problems and Perspectives*, Deep and Deep, New Delhi

13. Singh, S.K., (1994), *Bonded Labor and the La,* Deep and Deep. New Delhi

14. UN, (1996), *The Right to Migratory Workers*, UN Centre for Human Rights, World Campaign for Human Rights, Geneva:

15. Kaushal, Rachna, (2000), *Women and Human Rights in India.* New Delhi: Kaveri Books.

16. Khan, Mumtaz Ali, (1998), *Women and the Human Rights,* Commonwealth, New Delhi

17. Kaushik, Vijay (1999), *Women's Movements and Human Rights*, Pointer Publishers Jaipur

18. Nirmal, C.J., (1999), *Human Rights in India,* Oxford, New Delhi

19. Saxena, Shobha, (1999), *Crimes against Women and Protective Laws*, Deep and Deep, New Delhi:

20. UN, (1999), *Convention on the Elimination of all Forms of Discrimination against Women*, UN Department of Public Information, New York

21. UN, (1993), *Human Rights and Disabled persons*, Geneva: World Campaign for Human Rights.

22. Karna, G. and K. Gaharana, (1994), *Rights* of, *Disabled Persons,* In K.P., Saksena, ed. *Human Rights: Perspective and Challenges*, New Delhi.

23. Kumar, Bindal, (2000), *Problems of Working Children,* APH Publication, New Delhi

24. Lalitha, S., Legality of Contract of Sale of Women, *Journal of Indian Law Institute, vol. 30, no.1*

25. Karna, G.N. (2000), Disability Rights Movement: Conceptual Framework and its Implications for India, Disabilities *and Impairments, Vol. 14, NO.1.*

26. Dikshit, R.C., (1998), *Human Rights and the* Law, Universal and Indian, Deep and Deep, New Delhi:

27. Jha, R.C., (1995), *Resurrecting: Human Right in India*, Sheridan Book Company, New Delhi

28. Mishra, Pramod (ed.), (2000*), Human Rights in South Asia*, Delhi: Kalpaz Publications.

29. Ray, Aswani K, (1986), Civil Rights Movement and Social Struggle in India, *Economic and Political Weekly, Vol. XXXI, NO. 28, 12 July. .*

30. Verma, R.S., (2000), *Human Rights: Burning Issues of the World,* Volumes I, II and III: Radiant Publishers Delhi,

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Semester-IV

Paper-Societal Issues of Human Rights in India-II

Max. Marks : 90
Time : 3 Hrs.

Note for the Paper-Setter

Total Nine Questions to be set, Selecting at least two questions from each unit and ninth question will be Objective Multiple Choice (2 marks each) covering the whole syllabi.

Note for the student

Attempt any five questions. All questions carry equal marks.

Unit: I Human Rights and Criminal Justice System: Criminal Justice System and Prosecution of Human Rights.

Unit: II Offence involving Human Rights; and Rights of Accrued, Rights of Inmates of Persons and Custodial Homes.

Unit: III Administration of Criminal Justice and Reforms: Administration of Criminal Justice. Ordinary Courts, Special Courts, District Human Rights Courts.

Unit: IV Rights to Legal Aid, Punishments and Human Rights; and Reforms in Police and Jails.

Note: ***Internal Assessment*** Marks: 10

Readings

1. Bag, R.K., (1997), Domestic violence and crime against women: Criminal Justice Response in India, *Journal of Indian Law Institute, Vol. 39, and nos. 2-4.*

2. Bakken, T., (1985) International Law and Human Rights for Defendants in Criminal Trails, *Indian Journal of Law Vol. 25*

3. Bava, Noorjahan, (ed), (2000), *Human rights and Criminal Justice Administration in India,* New Delhi: Uppal Publishing House.

4. Baxi, Upendra, (1988), Clemency, Extradition and Death: The Judicial Discourse in Keher Singh, *Journal of Indian Law, Vol. 30, and no. 4.*

5. Bhagwati, P.N.,(1985,) Human Rights in the Criminal Justice System, *Journal of Indian Law Institute, Vol. 27, no. 1.*

6. Ghosh, S.K., (1993), *Torture and Rape in Police Custody,*: Asish Publishing House, New Delhi

7. Guttal, G.H, (1986), Human Right: The Indian Law, *Indian Journal of International Law, vol. 26.*

8. Landerer, L.E, (1971,) Capital Punishment as a Human Rights Issue before the United Nation, *Human Rights Journal, Vol. 4, no. 2*

9. Monohar, Sujata V., (1996), Judiciary and Human Rights, *Indian Journal of International Law Vol. 36*

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10. Scobb, Harry, M. and Laurie Wizerber, (eds.), (1984*), Access to Justice: Struggle for Rights in South East Asia*, Washington D.C: Human Rights Internet.

11. Suresh, H,(1996,), Human Rights and Criminal Justice and Functionaries, *Economic and Political Weekly*, *Vol. 31, no. 24.*

12. UN, (1991), *Enforced or Involuntary Disappearances*, Geneva: Center for Human Rights, World Campaign for Human Rights

13. UN, (1997), *Extra- Judicial, Summary or Arbitrary Executions*, Geneva: Center for Human rights, Under World campaign for Human rights.

14. UN, (1994), Human rights and Pre-trial Detention: A Handbook of International Standard Relating to Pre –Trial Detention, New York: UN publication Division.

15. Vibhute, K.I, (1990), Compensating Victims of Crimes in Indian Society, Shubhi, New Delhi.

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KURUKSHETRA UNIVERSITY, KURUKSHETRA

B.A. 2nd YEAR Defence Studies

Syllabus and Courses of Reading w.e.f. 2011-2012

Note: 1. There will be one theory paper of 60 marks and one paper of practical having 30 marks and 10 marks for Internal Assessment.

2. Two theory papers (Opt. A and Opt. B) have been prescribed. The candidate is to take any of them.

3. Examiner should set at least ten questions including one objective type multiple choice question, covering the entire syllabus, Candidates are required to attempt any five questions. No questions is compulsory.

4. The candidates are required to pass separately both in theory and in practical papers.

Semester-III

Paper-I (Option-A): Military Thinkers and Military History

Max. Marks : 60
Internal Assessment: 10
Time : 3 Hours

a) Military Thinkers:

(1) Machiavelli

(2) Vauban

(3) Jomini

(4) Napolean

(5) Clautsewitz

b) Principles of War:

(1) Selection and Maintenance of Aim

(2) Offensive Action

(3) Concentration

(4) Economy of Forces

(5) Co-operation

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Paper-I (Option-B): Study of War

Max. Marks : 60
Internal Assessment: 10
Time : 3 Hours

(1) Nature of War:

(a) Definition of War, its Scope, Advantages and Disadvantages.

(b) Evolution of War-Feudal Dynastic People, Total Nuclear Wars.

(c) Cold-War-Psychological, Economic and Diplomatic.

(d) Guerilla War

(e) Features of Modern War

(f) Future of War

(2) Principles of War:

(a) Selection and Maintenance of Aim

(b) Offensive Action

(c) Concentration

(d) Economy of Forces

(e) Co-operation

(f) Security

(g) Surprise

(h) Mobility

(i) Maintenance of Moral and Administration

Books Recommended:

1.	Essentials of Military Knowledge	:	Major Gen. Palit
2.	Nature of Modern War	:	Cyril Falls
3.	Samarik Siddhant	:	M.D. Verma
4.	The Art of Land Welfare	:	B.N. Maliwal
5.	India Wins the War	:	S.N. Rampal
6.	An Introduction of the Art of War	:	S.T. Das
7.	The Study of Military History	:	Sheppered
8.	The Study of Indirected Approach	:	Little Hart

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Paper-II: (Practical) Map Reading Part-II

Max. Marks: 30
Time: 3 Hours

Practical Test	20 Marks
Practical Record	5 Marks
Viva-Voce	5 Marks

1. SCALE: Construction of Time Scale Diagonal Scale.
2. Bearing and Inter-conversion of Bearing with I.C.E.
3. Finding position on the griddle Map by Intersection Method and Resection method.
4. Relife Feature and their representation on the map.
5. Types of slope and their representation on the map by contour lines.

Note: The above mentioned exercise should be carried out on Top Sheets.

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Semester-IV

Paper-I (Option-A): Military Thinkers and Military History

Max. Marks : 60
Internal Assessment: 10
Time : 3 Hours

a) Military Thinkers:

(1) A.T. Mahan

(2) Doughet

(3) Hitler

(4) Liddle Hart

b) Principles of War:

(1) Security

(2) Surprise

(3) Mobility

(4) Maintenance of Moral

(5) Administration

Paper-I (Option-B): Study of War

Max. Marks : 60
Internal Assessment: 10
Time : 3 Hours

(1) Strategy and Tactics:

Various definitions, distinction between strategy and Grand strategy. Evolution of Tactics during 19th and 20th Century, Strategy of indirect approach, strategy of Annihilation and Strategy of Exhaustion.

(2) Indo-Pak War 1965 and 1971 A.D. and Battle of Kargil 1999 with references to the following:

(i) Causes of War

(ii) Study of War in outline

(iii) Political and Military lessons learnt.

(3) Origin and Causes of World War I and II

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Books Recommended:

1.	Essentials of Military Knowledge	:	Major Gen. Palit
2.	Nature of Modern War	:	Cyril Falls
3.	Samarik Siddhant	:	M.D. Verma
4.	The Art of Land Welfare	:	B.N. Maliwal
5.	India Wins the War	:	S.N. Rampal
6.	An Introduction of the Art of War	:	S.T. Das
7.	The Study of Military History	:	Sheppered
8.	The Study of Indirected Approach	:	Little Hart

Paper-II: (Practical) Map Reading Part-II

Max. Marks: 30
Time: 3 Hours

Practical Test	20 Marks
Practical Record	5 Marks
Viva-Voce	5 Marks

1. Gradient and Slope in Degrees.
2. To determine inter-visibility between two points; Gradient method, Sum proportion method and Section drawing method.
3. To draw a Field Sketch from a given Route Report.
4. Enlargement and Reduction of Maps.
5. To prepare a Route from a given narrative Data.

Note: The above mentioned exercise should be carried out on Top Sheets.

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Scheme of Examination for Under Graduate
(Effective from the Academic session 2011-2012)

Semester-III

Paper-: Direct Methods of Social Work Practice

Time: 3-Hrs

Max. Marks: 100

Theory Paper	:	60
Internal assessment	:	10
Field Practicum	:	30

Under Field Practicum Component the students of IIIrd Semester will undertake Field Survey of rural area to investigate socio-economic conditions/problems of people and submit a report to the Department of Social Work of the concern college through the teacher concern.

Semester-IV

Paper-: Indirect Methods of Social Work Practice

Time: 3-Hrs

Max. Marks: 100

Theory Paper	:	60
Internal assessment	:	10
Field Practicum	:	30

Under Field Practicum Component the students of IVth Semester will undertake Field Survey of urban/slum community to investigate socio-economic conditions/problems of people and submit a report to the Department of Social Work of the concern college through the teacher concern.

NOTE:- The Field Work Viva-voce examination will be conducted on the basis of field work in the each semester by external examiner. The reports of field work of IIIrd and IVth semesters must be submitted by the end of each semester before examination.

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B.A Semester-III

Paper-: Direct Methods of Social Work Practice

Time: 3-Hrs

Max. Marks: 100

Theory Paper : 60
Internal assessment : 10
Field Practicum : 30

UNIT-I

Social Case Work :concept, meaning, basic assumptions, objectives, historical development, components and principles.

UNIT-II

Basics of Social Case Work :intake, study, analysis, assessment, goal formation, treatment and termination. Defence Mechanism

UNIT-III

Social Group Work :concept, meaning, basic assumptions, objectives, historical development & principles. Scop and need of social group work.

UNIT-IV

Community Organization :concept, meaning, assumptions, objectives, scope, principles and steps.

UNIT-V

Recording :meaning, importance, types and uses of recording in social work practice.

NOTE:-

The paper setter will set ten questions in all. Candidates will be required to attempt five questions selecting one question from each unit. However one of the ten questions will be of objective type consisting of four short questions from the whole syllabus and will be placed in any one of the units.

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Books Recommended :

1	Upadhyay R.K. 1991	Samajik Vaiyaktik Karya (Hindi); Chandigarh: Haryana Sahitaya Academy.
2	Mishra, P.D. 1985	Samajik Vaiyaktik Sewa Karya (Hindi); Lucknow: Uttar Pradesh Hindi Sansthan.
3	Mishra, P.D. 1985	Samajik Samuhik Sewa Karya (Hindi); Lucknow: Uttar Pradesh Hindi Sansthan.
4	Kanopka, G. 1970	Group Work in the institution; New York: Association Press.
5	Singh A.N.	Samudaik Sangathan (Hindi); Chandigarh: Haryana Sahitaya Academy.
6	Singh A.N.	Community Empowerment Education: An Inter-disciplinary Approach; Ambala: Associated Pub.
7	Kanopka, G. 1963	Social Group Work: A Helping Process; New Jeressy: Prentice Hall Inc.

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Semester-IV

Paper-I: Indirect Methods of Social Work Practice

Time: 3-Hrs

Max. Marks: 100

Theory Paper : 60
Internal assessment: 10
Field Practicum : 30

UNIT-I

Social Action: meaning, nature, objectives, principles and role of social worker in social action.

UNIT-II

Social Welfare Administration: meaning, definition, features, functions and principles. Difference between social welfare administration, social administration & public administration.

UNIT-III

Social Research: Meaning, definition, types, significance and steps of social research
Social Work Research: meaning, objectives & difference with social research

UNIT-IV

Meaning and significance of statistics.
Measures of central tendency- mean, median, and mode

UNIT-V

Socialization: concept. significance, process and factors and agencies. Role of family, peergroup, neighbourhood, school and religion in socialization

NOTE:-

The paper setter will set ten questions in all. Candidates will be required to attempt five questions selecting one question from each unit. However one of the ten questions will be of objective type consisting of four short questions from the whole syllabus and will be placed in any one of the units.

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Books Recommended :

1	Siddiqui, H.Y.	Social Work and Social Action; New Delhi: Harnam Publications.
2	Goel, S.C. and Jain P.K.	Social Welfare Administration; Vol I & II; New Delhi: Deep & Deep Publication.
3	Chaudhary, D. Paul	Social Welfare Administration; Delhi: Atma Ram & sons.
4	Young, P.V. 1968	Scientific Social Surveys & Research; New Delhi: Prentice Hall of India.
5	Gupta, S.P. 1969	Statistical Methods; Delhi: Sultan Chand and sons.
6	Bhushan V. & Sachdev D.R.	An introduction to sociology; Allahabad: Kitab Mahal.
7	Maclver, R.M& Page C.H. 1985	Society: An Introductory Analysis; Madras: Macmillan W of India Ltd.

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B.A.II- 3rd Semester

Methods in Social Research

Maximum Marks – 100

Theory – 90

Internal Assessment – 10

Time – 3 hours

Note: - The Paper setter shall set 8 questions from all four units with internal choice.

However, one compulsory question of short answer type would be set from the entire syllabus comprising eight sub-questions of three marks each under 5th Unit, out of which six sub-questions are required to be attempted by the examinee in this unit. Such way, the examinees are required to attempt five questions in all, of 18 marks each.

UNIT – I

Social Research: Definition, Nature and purpose; Steps in Social Research; Problem of Objectivity and Subjectivity in Social Research

UNIT – II

Research Method: Research Designs; Social Survey; Hypothesis- Types & significance; Sampling and Sampling Procedure

UNIT – III

Techniques of Data Collection: Types of Data; Techniques- Observation, Interview, Questionnaire, Schedule and Case Study

UNIT – IV

Statistical Analysis and Use of Computer in Social Research: Classification and Tabulation of data; Measures of Central Tendency: Mean, Median and Mode; Use of Computers in Social Research.

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Readings:

Ahuja, Ram (2001): **Research Methods,** New Delhi: Rawat Publication.

Goode, W.J. and P.K.Hatt (1952): **Methods in Social Research,** New York: McGraw International.

Seltiz, Claise et al; (1959): **Research Methods in Social Relation,** New York: Henry Holt and Co.

Srivastava, Prakash G.N. (1994): **Advances Research Methodology**, Delhi: Radha Publication.

Thakur, Devender (2003): **Research Methodology in Social Science,** Delhi: Deep and Deep Publication.

Young, P.V. (1988): **Scientific Social Survey and Research**, New Delhi Prentice Hall.

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B.A.II - 4th Semester

Indian Society

(Optional-I)

Maximum Marks – 100

Theory – 90

Internal Assessment – 10

Time – 3 hours

Note: - The Paper setter shall set 8 questions from all four units with internal choice.

However, one compulsory question of short answer type would be set from the entire syllabus comprising eight sub-questions of three marks each under 5th Unit, out of which six sub-questions are required to be attempted by the examinee in this unit. Such way, the examinees are required to attempt five questions in all, of 18 marks each.

UNIT – I

Evolution of Indian Society: Traditional bases of Indian Society; Unity and Diversity in India; India as a Pluralistic Society.

UNIT – II

Indian Social Institutions: Kinship, Family, Marriage; Caste and its Changing Dimensions.

UNIT – III

Processes of Social Change in India: Sanskritization, Westernization, Parochiatization and Universatization

UNIT – IV

Social Issues and Problems: Gender Discrimination, Secularism and Religious Minorities, Problems of Dalits Women and OBC and Affirmative Actions

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Readings:

Ahuja, Ram (1997): **Society in India: Concept, Theories and Recent Trends,** Jaipur: Rawat Publication.

Beteille, Andre (1992): **Backward Classes in Contemporary India**, New Delhi: OUP.

Dube, S.C.(1991): **Indian Society**, New Delhi : National Book Trust.

Ghurye, G.S. (1968): **Social Tension**, Bombay: Popular Prakashan.

Karve, Iravati (1961): **Hindu Society: An Interpretation,** Pune: Daccan College.

Mandelbaum, D.G. (1970): **Society in India**, Bombay: Popular Prakashan.

Sharma K.L.(ed.) (1994): **Caste and Class,** Jaipur, Rawat Publication.

Srinivas, M.N.(1980): **India's : Social Structure,** New Delhi : Hindustan Publication.

Srinivas, M.N.(1985): **Social Change in Modern India,** New Delhi : Orient Longman.

India: 2010 Govt. of India, New Delhi, Govt. of India publication division.

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B.A.II - 4th Semester

Social Problems in India

(Optional-II)

Maximum Marks – 100

Theory – 90

Internal Assessment – 10

Time – 3 hours

Note: - The Paper setter shall set 8 questions from all four units with internal choice.

However, one compulsory question of short answer type would be set from the entire syllabus comprising eight sub-questions of three marks each under 5th Unit, out of which six sub-questions are required to be attempted by the examinee in this unit. Such way, the examinees are required to attempt five questions in all, of 18 marks each.

UNIT – I

Social Problem: Meaning and Definition; Importance of the Study of Social Problems; Sociological Perspectives on Social Problem-Anomie (Durkheim), Diffential Association (Sutherland), Labeling (Becker).

UNIT – II

Structural Issues: Inequality of Caste, Class Gender and Ethnicity; Communalism; Problems of Minorities.

UNIT – III

Problems and Issues: Female Foeticide, Dowry, Domestic Violence, Divorce; Problems of Aged.

UNIT – IV

Social Disorganization: Crime and Juvenile Delinquency, Corruption, Drug Addiction, Suicide, Prostitution and AIDS

Readings:

Ahuja, Ram (2000): **Social Problems in India,** New Delhi: Rawat Publications.

Beteille, Andre (1992): **Backward Classes in Contemporary India**, New Delhi: OUP

Beteille, Andre (1974): **Social Inequality**, New Delhi: OUP

Bereman, G.D. (1979): **Caste and Other Inequalities: Essay in Inequality**, Meerut: Folklore Institute.

Dube, Leela (1997): **Women and Kinship, Comparative Perspectives on Gender in South and Southeast Asia**, New Delhi: Sage Publication.

Desai, Neera & Usha Thakkar (2007): **Women in Indian Society,** National Book Trust, India.

Gadgil, Madhav and Ramchandra Guha (1996): **Ecology and Equality: The use and Abuse of Nature in Contemporary India,** New Delhi: OUP.

Gill, S.S. (1998): **The Pathology of Corruption**, New Delhi: Harper Collin Publishers.

Lewis, Oscar (1966): **Culture of Poverty "Scientific American"** Vol-II and V No.IV PP-19-25.

Satya Murty, T.V. (1996): **Region, Religion, Caste, Gender and Culture in Contemporary India,** New Delhi: OUP.

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B.A.II - 4th Semester

Social Change and Development
(Optional-III)

Maximum Marks – 100
Theory – 90
Internal Assessment – 10

Time – 3 hours

Note: - The Paper setter shall set 8 questions from all four units with internal choice.

However, one compulsory question of short answer type would be set from the entire syllabus comprising eight sub-questions of three marks each under 5th Unit, out of which six sub-questions are required to be attempted by the examinee in this unit. Such way, the examinees are required to attempt five questions in all, of 18 marks each.

Unit – 1

Social Change: Concept, Forms and Factors; Concept and Features of Development.

Unit – II

Theories of Social Change: Linear (Spencer), Cyclical (Pareto), Fluctuation (Sorokin); Conflict Theory (Marx)

Unit – III

Social Change in Contemporary India: Trends and Processes of Change – Sanskritisation, Westernisation, Modernisation and Secularisation

Unit – IV

Development Programmes in India: Development Programme in India; The Five Year Plans, Community Development Programme, , Panchayat Raj; Impact of new Panchayati Raj on Women Empowerment

Readings:

Appadurai, Arjun.(1997), Modernity At Large: Cultural Dimensions of Globalization. New Delhi: OUP

Bernd, Hamns & Pandurang K. Mutagi (1998), Sustainable Development and Future of Cities, Intermediate Technology Publication, UNSECO

Dereze, Jean and Amartya Sen.(1996), India: Economic Development and Social Opportunity. New Delhi: OUP.

Desai, A.R. (1985), India's Path of Development: A Marxist Approach. Bombay: Popular Parkashan.(Chapter 2).

Dube, S.C. (1988), Modernization and Development: The Search for Alternative Paradigm, Vistaar Publication, New Delhi.

Dube, S.C. (2000), *Vikas Ka Samajshastra*, Vani Parkashan, New Delhi.

Giddens, Anthony.(1990), The Consequences of Modernity. Cambridge: Polity Press.

Magdoff, Harry (2002), Imperialism and Globalisation, Cornerstone Publications, Kharagpur.

Myrdal, G. (1966), in Shanin, Theodor (Ed.), Peasant and Peasant Societies, Penguin.

Moor, Wilbert and Robert Cook. (1967), Social Change. New Delhi: Prentice-Hall (India)

N.Long (1977), An Introduction to the Sociology of Rural Development, Tavistock Publications;London
Sharma, SL(1986), Development: Socio-Cultural Dimensions. Jaipur: Rawat.(Chapter1).
Srinivas, M.N. (1966), Social Change in Modern India. Berkley: University of Berkley.
S.C. Dube (1998): Modernization and Development, New Delhi: VistaarPublishers.

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DEPARTMENT OF PUBLIC ADMINISTRATION
KURUKSHETRA UNIVERSITY KURUKSHETRA
(Established by the State Legislature Act XII of 1956)
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SCHEME OF EXAMINATION OF DIPLOMA IN PUBLIC MANAGEMENT

Semester-I

Paper	Nomenclature	Max. Marks (Theory)
1	Basic Concept	100
2	Personal Administration and Civil Services	100
3	Financial Administration & Management in India	100
4	Comparative and Development Administration	100
5	Instruments and Means in Public Administration	100

Semester-II

Paper	Nomenclature	Max. Marks (Theory)
6	Administrative Theories & Thoughts	100
7	Constitutional Framework of Indian Administration	100
8	State and District Administration	100
9	Planning and Public Enterprises	100
10	Issues in Indian Administration	100

Note: There will be seven questions in each paper. The candidate is required to attempt four questions in all. Two questions of 30 marks each (Number 1 and Number 5) will be compulsory and comprising of three separate parts (each part of 10 marks). Other 5 questions will have two parts and each part of these will also be of 10 marks.

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SCHEME OF EXAMINATION AND OUTLINES OF COURSE

B.A. (HONOURS) PSYCHOLOGY (Semester System)

No. of Papers

	Main	Qualifying	Subsidiary	Total
Semester-I:	2+1	1	1	5
Semester-II:	2+1	1	1	5
Semester-III:	3+1	-	1	5
Semester-IV:	3+1	-	1	5
Semester-V:	3+1	-	1	5
Semester-VI:	3+1	-	1	5
Total	22	2	6	30

Outlines of B.A. (Honours) Psychology Courses

Paper No.	Nomenclature	Marks	Internal Assessment	Total
Semester-I				
Paper -I	Fundamentals of Psychology	65	10	75
Paper- II	Social Psychology (i)	65	10	75
Paper- III	Practicals	50	-	50
Semester-II				
Paper-IV	Experimental Psychology	65	10	75
Paper-V	Social Psychology (ii)	65	10	75
Paper-VI	Practicals	50	-	50
Semester-III				
Paper-VII	Guidance	65	10	75
Paper-VIII	Child Psychology	65	10	75
Paper-IX	Research Methods and Statistics (i)	65	10	75
Paper-X	Practicals	75	-	75
Semester-IV				
Paper-XI	Counselling	65	10	75
Paper- XII	Psychology of Adolescence	65	10	75
Paper- XIII	Research Methods and Statistics (ii)	65	10	75
Paper- XIV	Practicals	75	-	75
Semester-V				
Paper-XV	Psychopathology	65	10	75
Paper-XVI	Psychological Testing	65	10	75
Paper-XVII	Industrial Psychology	65	10	75
Paper-XVIII	Practicals	75	-	75
Semester-VI				
Paper-XIX	Clinical Psychology	65	10	75
Paper-XX	Organizational Behaviour	65	10	75
Paper-XXI	Biological Psychology	65	10	75
Paper-XXII	Practicals	75	-	75

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B. A. (Hons.) Psychology: Semester-I

Paper-I: Fundamentals of Psychology

Max. Marks: 65 +10 Internal
Time: 3 Hours

Note: The question paper will consist of NINE questions out of which the candidate would be required to attempt FIVE questions. Each question will carry 13 marks. The first question will be compulsory and will include 13 objective type questions (multiple-choice) uniformly spread over entire syllabus. The remaining EIGHT questions will be set taking TWO questions from each of the four units. The candidate would be required to attempt ONE question from each unit.

UNIT-I

Introduction to Psychology: Historical development, Psychology as Science,
Approaches: Behaviouristic, Psychoanalytic, and Cognitive. Experimental Method.

UNIT-II

Biological basis of behaviour: Basic units of Nervous System – Neurons,
Nerve conduction, and Synapse. Central and Peripheral Nervous System.

UNIT-III

Emotion: Nature, Theories: James-Lange, Canon-Bard, and Schachter-Singer.

Motivation: Needs, Drives, Incentives. Biological and Social Motives.

UNIT-IV

Personality: Nature, Type vs. Trait Approach. Theories: Freud, Cattell, and Eysenck.
Intelligence: Nature, Theories: Spearman, Thurstone, and Cattell,

Recommended Books:

Atkinson, R.L., Atkinson, R.C., Smith, E.E., Bem, D. J., and Hilgard, E.R. (1990). Introduction to Psychology (10th ed.). New York: Harcourt Brace Jovanovich.

Carlson, N. R. (1990). Psychology: The Science of Behaviour (3rd ed.). London: Allyn and Bacon.

Chaplin, T., Kraweic (1979) Systems & Theories of Psychology (4th ed.). New York: Holt Rinehart.

Morgan, C.T. et al. (1979), Introduction to Psychology. New Delhi: T.M.H.

Morris, C. G. (1990). Psychology: An Introduction. New Delhi: Prentice Hall.
Singh, A. and Singh,U.(1984). Samanya Manovigyan. Bhiwani: Vaidic Prakashan.

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B. A. (Hons.) Psychology: Semester-I

Paper-II: Social Psychology (i)

Max. Marks: 65 +10 Internal
Time: 3 Hours

Note: The question paper will consist of NINE questions out of which the candidate would be required to attempt FIVE questions. Each question will carry 13 marks. The first question will be compulsory and will include 13 objective type questions (multiple-choice) uniformly spread over entire syllabus. The remaining EIGHT questions will be set taking TWO questions from each of the four units. The candidate would be required to attempt ONE question from each unit.

UNIT-I

Introduction: Nature, Historical Background, scope and current status.
Methods of Study: Observation, Sociometry, Field Study.

UNIT-II

Socialization: Nature, Agencies, Social learning, Development of self and Personality.
Social Perception: Meaning, Determinants. Person Perception, Impression Formation.

UNIT-III

Interpersonal attraction: Meaning, Determinants, Social influence, Conformity, Obedience and Compliance.
Helping and Prosocial behaviour: Meaning, Determinants.

UNIT-IV

Attitude: Nature, Attitude and behaviour, Formation and change- Persuasion and resistance to change.
Prejudice: Nature, determinants, counteracting prejudice.

Recommended Books:

Baron, R.A. and Byrne, D. (1993). Social Psychology : Understanding Human Interaction. New Delhi: Prentice Hall.

Kretch and Crutchfield (1948) *Theory and Problems of Social Psychology.* McGraw Hill, New York.

McDavid, J. W. & Harrari, H. (1968) *Social Psychology.* Harper & Row.

Misra, G. (1990). Applied Social Psychology. New Delhi: Sage Publications.

Myers, D.G.(1998). Social Psychology. New York: McGraw Hill.

Rastogi, G.D. (1986). Adhunik Samaj Manovigyan, Agra: Bhargava.

Srivastava, D.N. Singh, R. & Pandey, J. (1991). Adhunik Samaj Manovigyan, Agra: Bhargava.

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B. A. (Hons.) Psychology: Semester-I

Paper-III: Practicals

Max. Marks: 50
Time: 3 Hours

Note: The students would be required to conduct at least 6 practicals during the session. Each examinee will have to conduct one practical during the examination as allotted by the examiner. The distribution of marks will be as under:

a. Conduction and reporting: 25 Marks
b. Viva-voce: 15 Marks
c. Record book: 10 Marks

1. EPQ
2. Verbal Test of Intelligence
3. Simple Reaction Time
4. Span of Attention
5. Raven's Progressive Matrices
6. Study of Emotions (Facial Expression)
7. Motivation Test
8. 16 PF
9. Computer Application: Data File in M.S. Excel

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B. A. (Hons.) Psychology: Semester-II

Paper-I: Experimental Psychology

Max. Marks: 65 +10 Internal
Time: 3 Hours

Note: The question paper will consist of NINE questions out of which the candidate would be required to attempt FIVE questions. Each question will carry 13 marks. The first question will be compulsory and will include 13 objective type questions (multiple-choice) uniformly spread over entire syllabus. The remaining EIGHT questions will be set taking TWO questions from each of the four units. The candidate would be required to attempt ONE question from each unit.

UNIT-I

Experimental Psychology: Nature, History.

Sensory Processes: Visual and Auditory - Structure and Functions of Eye and Ear.

Perceptual processes: Form and Space, Perceptual Organisation; Perceptual Illusions: Types and Theories.

UNIT-II

Psychophysics: Problems, Methods: Determination of Sensory Thresholds;
Psychophysical Laws: Weber, Fechner.

UNIT-III

Learning: Nature, Trial and Error, Insight, Factors affecting Learning.
Classical Conditioning, Instrumental Conditioning: Appetitive, Aversive, Operant Conditioning.

UNIT-IV

Memory: Nature, Processes: Encoding, Storage, and Retrieval.
STM and LTM: Characteristics, Methods to study. Transfer from STM to LTM.
Forgetting: Nature, Theories.

Recommended Books:

Atkinson, R.L., Atkinson, R.C., Smith, E.E., Bem, D. J., and Hilgard, E.R. (1990). Introduction to Psychology (10th ed.). New York: Harcourt Brace Jovanovich.

D'Amato, M.R. (1970). Experimental Psychology. New Delhi: Tata McGraw Hill.

Flaherty, C. F. et al., (1977) *Learning and Memory.* RanMcNally Pub. Co.

Guilford, J.P. (1954). Psychometric methods (2nd ed.). New Delhi: McGraw Hill.

Kling, J. W. and Riggs, L.A. (1984). *Woodworth & Schlosberg's* Experimental Psychology. New Delhi: Khosla Publication.

Singh, A. (1985). Hundal Experimental Psychology. Bhiwani: Vedic Prakashan.

Snodgrass, J. G., Berger, G. L. and Haydon, M (1985). Human Experimental Psychology. New York: Oxford University Press.

Woodworth, R. S. & Schlosberg, H. (1971) *Experimental Psychology.* New Delhi: Oxford & IBH.

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B. A. (Hons.) Psychology: Semester-II

Paper-II: Social Psychology (ii)

Max. Marks: 65 +10 Internal
Time: 3 Hours

Note: The question paper will consist of NINE questions out of which the candidate would be required to attempt FIVE questions. Each question will carry 13 marks. The first question will be compulsory and will include 13 objective type questions (multiple-choice) uniformly spread over entire syllabus. The remaining EIGHT questions will be set taking TWO questions from each of the four units. The candidate would be required to attempt ONE question from each unit.

UNIT-I

Social Group: Meaning, Types, Characteristics- Cohesiveness, Intergroup conflict.
Leadership: Meaning, Types, Theories- Trait, Situational, Contingency, Interactional.

UNIT-II

Mass Behaviour: Crowd- Meaning, characteristics, classification, Theories.
Audience- Meaning, characteristics; Mob- Meaning, Characteristics.

UNIT-III

Social Change: Nature, characteristics, Types, Theories.
Social Problems: Poverty; Population, Deprivation.

UNIT-IV

Aggression and Violence: Nature, Theoretical Perspective-
Trait, Situational, and Social learning. Prevention and Control.

Recommended Books:

Baron, R.A. and Byrne, D. (1993). Social Psychology : Understanding Human Interaction. New Delhi: Prentice Hall.

Kretch and Crutchfield (1948) *Theory and Problems of Social Psychology.* McGraw Hill,

New York.

McDavid, J. W. & Harrari, H. (1968) *Social Psychology.* Harper & Row.

Misra, G. (1990). Applied Social Psychology. New Delhi: Sage Publications.

Myers, D.G.(1998). Social Psychology. New York: McGraw Hill.

Rastogi, G.D. (1986). Adhunik Samaj Manovigyan, Agra: Bhargava.

Srivastava, D.N. Singh, R. & Pandey, J. (1991). Adhunik Samaj Manovigyan, Agra: Bhargava.

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B. A. (Hons.) Psychology: Semester-II

Paper-III: Practicals

Max. Marks: 50
Time: 3 Hours

Note: The students would be required to conduct at least 6 practicals during the session. Each examinee will have to conduct one practical during the examination as allotted by the examiner. The distribution of marks will be as under:

a. Conduction and reporting: 25 Marks
b. Viva-voce: 15 Marks
c. Record book: 10 Marks

1. Observation
2. Sociometry
3. Social Facilitation
4. Social Conformity
5. Attitudes
6. Stereotypes
7. Study of Altruism
8. Self Concept
9. Computer Application: Computation of Mean in MS Excel

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Paper code- MSBF 402
INDIAN FINANCIAL SYSTEM

Time 3 hours
Max. marks 100
External 80
Internal 20

INSTRUCTIONS FOR THE PAPER SETTER: The paper has to be set from PART-I only. In all, there will be three sections. In Section-A, 10 questions will be set and the candidates are required to attempt all the 10 questions in 25 words each. Each question in Section-A is of 2 marks. In Section-B, 8 questions will be set and the candidates are required to attempt 6 questions in 50 words each. Each question in Section-B is of 4 marks. In Section-C, 4 questions will be set and the candidates are required to attempt 3 questions in 200 words each. Each question in Section-C is of 12 marks.

INSTRUCTIONS FOR THE CANDIDATES: From Section-A, attempt all the 10 questions in 25 words each. Each question in Section-A is of 2 marks. From Section-B, attempt 6 questions in 50 words each. Each question in Section-B is of 4 marks. From Section-C, attempt 3 questions in 200 words each. Each question in Section-C is of 12 marks.

PART-I (THEORY)

Indian Financial markets; Indian Capital Market – Features, Working, Defects and Suggestions for improvement in Indian Capital Market; Indian Money Market – Meaning, Nature, Functions, Constituents, Defects and suggestions to improve Indian Money Market; Recent Trends in Indian Money Market.

Development Banking in India – Introduction, Meaning, Functions and importance of Development Banks in India – IFCI, IDBI, ICICI, IRBI, SIDBI, EXIM Bank, SFCs, SIDCs

Merchant Banking in India – Origin, Meaning and Functions
Non Banking Financial Intermediaries – Development Bnaks, Insurance Companies, Common Trust Funds, Post Offices, Mutual Funds, pension Funds, provident Funds, saving and Loan Companies, Hire Purchase Companies, Chit Fund Companies

PART – II (PRACTICAL) Paper MSBF-406
Solve five Case studies and financial analysis of various functionaries.

Reading list

1. Bhole, L.M. (1999), Financial Institutions and Markets, Tata Mcgraw Hill Company Ltd., New Delhi
2. Bhole, L.M. (2000), Indian Financial System, Chugh Publications, Allahabad
3. Johnson, H.J. (1993), Financial Institutions and Markets, Mcgraw Hill, New York
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14. Gupta, L.C.(Ed.) (1999), India's Financial markets and Institutions, Society for capital research and development, Delhi

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17. Deodhar, S.B., Indian Financial System, Himalyan Publishing House, New Delhi
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SYLLABUS

OFFICE MANAGEMENT
B.A. Semester-III

Time: 3 Hours **Maximum Marks: 90**

Int. Assessment: 10

Note: The paper setter will set ten questions and a student is required to attempt any five questions.

Meaning and types of secretaries. Qualities, qualifications, powers and duties of Secretary of: Cooperative society, club or other such associations, educational societies, and Chambers of commerce.

Joint Stock Company: Meaning, characteristics and types of companies; Lifting of corporate veil.
Company Secretary: Qualities, qualifications, and appointment of company secretary; Rights, duties and liabilities of company secretary.

Formation of a joint stock company and secretarial work; Share capital of a company; Secretarial practices relating to issue and allotment of shares and share certificate.

Secretarial practices relating to transfer and transmission of shares.

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SYLLABUS

OFFICE MANAGEMENT
B.A. Semester-IV

Time: 3 Hours **Maximum Marks: 90**

Int. Assessment: 10

Note: The paper setter will set ten questions and a student is required to attempt any five questions.

Company meeting: Meaning and types of meeting; Secretarial practices relating to holding of meetings with special reference to notice, agenda, quorum, motions, resolutions, sense of meeting, adjournment of meeting and minutes. Minutes writing- types of minutes, minutes book, contents of minute, drafting or writing of minutes.

Personal Secretary: Qualities, qualifications, role and functions of personal secretary in business houses. Personal traits of secretary.

Government Secretary: Role of secretary in Govt. offices, Types and qualifications of Govt. secretaries. Organization of State Govt. Secretariat;

Main provisions of Official Language Act applicable to Govt. offices.

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SYLLABUS

MARKETING
B.A. Semester-III

Time: 3 Hours **Maximum Marks: 90**

Int. Assessment: 10

Note: The paper setter will set ten questions and a student is required to attempt any five questions.

Personal selling: Concept and features, classification of sales jobs, qualities and functions of a sales person, prospecting, personal selling process; Functions of a sales manager.

Sales Planning: Importance and process of sales planning; sales budgeting.

Sales Organization: Purpose, principles and process of setting up a sales organization; Sales organizational structures; Determining size of sales force.

Managing the Sales force: Recruitment; Selection; Training; Compensation; Motivating and Leading the sales force. Sales meetings and contests.

Ethical issues in sales management.

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SYLLABUS

MARKETING
B.A. Semester-IV

Time: 3 Hours **Maximum Marks: 90**

Int. Assessment: 10

Note: The paper setter will be set ten questions and a student is required to attempt any five questions.

Introduction to Advertising: Meaning, nature and importance; Communication process; Advertising and communication; Types of advertising; Advertising management process- an overview.

Advertising Objectives and Budget: Determining advertising objectives; Methods of determining advertising budget.

Media Planning: Features of Print, broadcasting media, Internet media and outdoor media; Media Planning and selection.

Role of advertising agencies, advertising agency and client relationship.

Ethical issues in advertising.

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KURUKSHETRA UNIVERSITY, KURUKSHETRA

SYLLABI FOR B.SC. III (5^{TH} AND 6^{TH} SEM)

EFFECTIVE FROM SESSION 2011-2012

Scheme of Examination

Semester	Name of the Papers	Marks	Time
5^{th}	IX Quantum and Laser Physics	45+5*	3 Hours
	X Nuclear Physics	45+5*	3 Hours
6^{th}	XI Solid State and Nano Physics	45+5*	3 Hours
	XII Atomic and Molecular Spectroscopy	45+5*	3 Hours
	Physics Lab	50+50=100	3 + 3 Hours
	Total Marks	300	

*internal assesment

Note:-

1. The syllabus of each paper will be divided into 4 units. There will be in all Nine Questions.
2. Question number one will be compulsory and will be based on the conceptual aspects of entire syllabus. This question may have five parts and the answer should be in brief but not in Yes/ No.
3. Two questions will be set from each unit and the students will have to attempt one question from each unit.
4. Four more questions are to be attempted, selecting one question out of two questions set from each unit. Each question may contain two or more parts. All questions will carry equal marks.
5. 20% numerical problems are to be set.
6. Use of scientific (non-programmable) calculator is allowed.

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B.Sc.-III (Physics)
Semester – V
Subject; Physics
Paper – IX : Quantum and Laser Physics

Max. Marks: 45
Internal Assessment: 5
Time: 3 hours

Note:-

1. Nine Questions will be set in total
2. Question number 1 will be compulsory and will be based on the conceptual aspects of entire syllabus. This question may have five parts and the answer should be in brief but not in Yes/ No.
3. Four more questions are to be attempted, selecting one question out of two questions set from each unit. Each question may contain two or more parts. All questions will carry equal marks.
4. 20% numerical problems are to be set.
5. Use of scientific (non-programmable) calculator is allowed.

Unit I: Origin quantum physics (Experimental basis)

Overview, scale of quantum physics, boundary between classical and quantum phenomena, Photon, Photoelectric effect, Compton effect (theory and result), Frank-Hertz experiment, de-Broglie hypothesis. Davisson and Germer experiment, ·G.P. Thomson experiment. Phase velocity, group velocity and their relation. Heisenberg's uncertainty principle. Time energy and angular momentum, position uncertainty. Uncertainty principle from de Broglie wave. (Wave-particle duality). Gamma Ray Microscope, Electron diffraction from a slit. Derivation of 1-D time-dependent Schrodinger wave equation (subject to force, free particle). Time-independent Schrodinger wave equation, eigen values, eigen functions, wave functions and its significance. Orthogonality and Normalization of function, concept of observer and operator. Expectation values of dynamical quantities, probability current density

Unit II: Application of Schrodinger wave equation:

(i) Free particle in one-dimensional box (solution of Schrodinger wave equation, eigen functions, eigen values, quantization of energy and momentum, nodes and anti nodes, zero point energy).

(ii) One dimensional step potential E > Vo (Reflection and Transmission coefficient)

(iii) One dimensional step potential E < Vo (penetration depth calculation).

(iv) One dimensional potential barrier, E > Vo (Reflection and Transmission coefficient)

(v) One-dimensional potential barrier, E < Vo (penetration or tunneling coefficient).

(vi) Solution of Schrodinger equation for harmonic oscillator (quantization of energy, Zero-point energy, wave equation for ground state and excited states).

Unit III: Laser Physics –I

Absorption and emission of radiation, Main features of a laser: Directionality, high intensity, high degree of coherence, spatial and temporal coherence, Einstein's coefficients and possibility of amplification, momentum transfer, life time of a level, kinetics of optical absorption (two and three level rate equation, Fuchbauer landerburg formula).population inversion: A necessary condition for light amplification, resonance cavity, laser

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pumping, Threshold condition for laser emission, line broadening mechanism, homogeneous and inhomogeneous line broadening (natural, collision and Doppler broadening).

Unit IV: Laser Physics – II

He-Ne laser and RUBY laser (Principle, Construction and working), Optical properties of semiconductor, Semiconductor laser (Principle, Construction and working), Applications of lasers in the field of medicine and industry.

References:

1 L I Schiff, Quantum Mechanics
2 Bransden B H and Joachain C J, Quantum Mechanics (2000), Pearson Education, New Delhi
3 Liboff R L, Introductory Quantum Mechanics
4 Eisberg R M and Resnick R, Quantum Physics of Atoms Molecules, Solids, Nuclei and Particles, Wiley Eastern Ltd, New Delhi
5 Verdeyen J T, Laser Electronics PHI, New Delhi
6 Thorenton S T and Rex A, Modern Physics, (2007) Cengage Learning, New Delhi
7 Taylor J R, Zafiratos C D and Dubson M A, Modern Physics, 2nd Ed (2004), PHI, New Delhi
8 Laud B B, Laser Physics

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B.Sc.-III (Physics)
Semester – V
Subject; Physics
Paper – X : Nuclear Physics

Max. Marks: 45
Internal Assessment: 5
Time: 3 hours

Note:-

1 Nine Questions will be set in total

2 Question number 1 will be compulsory and will be based on the conceptual aspects of entire syllabus. This question may have five parts and the answer should be in brief but not in Yes/ No.

3 Four more questions are to be attempted, selecting one question out of two questions set from each unit. Each question may contain two or more parts. All questions will carry equal marks.

4. 20% numerical problems are to be set.
5. Use of scientific (non-programmable) calculator is allowed.

Unit I: Nuclear Structure and Properties of Nuclei

Nuclear composition (p-e and p-n hypotheses), Nuclear properties; Nuclear size, spin, parity, statistics, magnetic dipole moment, quadruple moment (shape concept). Determination of mass by Bain-Bridge, Bain-Bridge and Jordan mass spectrograph. Determination of charge by Mosley Law. Determination of size of nuclei by Rutherford Back Scattering. mass and binding energy, systematic of nuclear binding energy, nuclear stability

Unit II: Nuclear Radiation decay Processes

Alpha-disintegration and its theory. Energetics of alpha-decay, Origin of continuous beta spectrum (neutrino hypothesis), types of beta-decay and energetics of beta-decay. Nature of gamma rays, Energetics of gamma rays.

Radiation interaction

Interaction of heavy charged particles (Alpha particles); Energy loss of heavy charged particle (idea of Bethe formula, no derivation), Range and straggling of alpha particles. Geiger-Nuttal law. Interaction of light charged particle (Beta-particle), Energy loss of beta-particles (ionization), Range of electrons, absorption of beta-particles. Interaction of Gamma Ray; Passage of Gamma radiations through matter (Photoelectric, Compton and pair production effect) electron-positron annihilation. Absorption of Gamma rays (Mass attenuation coefficient) and its application.

Unit III: Nuclear Accelerators

Linear accelerator, Tendem accelerator, Cyclotron and Betatron accelerators.

Nuclear Radiation Detectors.

Gas filled counters; Ionization chamber, proportional counter, G.M. Counter (detailed study), Scintillation counter and semiconductor detector.

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Unit IV:

Nuclear reactions.

Nuclear reactions, Elastic scattering, Inelastic scattering, Nuclear disintegration, Photonuclear reaction, Radiative capture, Direct reaction, Heavy ion reactions and spallation Reactions. Conservation laws, Q-value and reaction threshold**.**

Nuclear Reactors.

Nuclear Reactors, General aspects of Reactor Design. Nuclear fission and fusion reactors, (Principle, construction, working and use).

References:

1 Kaplan I, Nuclear Physics, 2nd Ed (1962), Oxford and IBH, New Delhi
2 Sriram K, Nuclear Measurement Techniques, (1986), AEWP, New Delhi
3 Tayal D C, Nuclear Physics (1994), HPH, Bombay
4 Ghoshal S N, Atomic and Nuclear Physics Vol II (1994), S Chand & Co New Delhi
5 Srivastava B N, Basic Nuclear Physics, (1993), Pragati Prakashan Meerut
6 Halliday, Introductory Nuclear Physics, Asia Publishing House, New Delhi
7 Sood D D, Ready A V R and Ramamoorthy, Fundamentals of Radiochemistry, IANCAS (2007), BARC, Bombay
8 Cohen B L, Comcepts of Nuclear Physics (1998), Tata Mc Graw Hill, New Delhi
9 Krane K S, Introductory Nuclear Physics (1988), John Wiley & Sons New Delhi
10 Patel S B, Nuclear Physics (1992), Wiley Eastern Ltd, New Delhi
11 Roy R R and Nigam B P, Nuclear Physics (1993), Wiley Eastern Ltd New Delhi.

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B.Sc.-III (Physics)
Semester – VI
Subject;Physics
Paper – XI : Solid State and Nano Physics

Max. Marks: 45
Internal Assessment: 5
Time: 3 hours

Note:-

1. Nine Questions will be set in total
2. Question number 1 will be compulsory and will be based on the conceptual aspects of entire syllabus. This question may have five parts and the answer should be in brief but not in Yes/ No.
3. For more questions are to be attempted, selecting one question out of two questions set from each unit. Each question may contain two or more parts. All questions will carry equal marks.
4. 20% numerical problems are to be set.
5. Use of scientific (non-programmable) calculator is allowed.

Unit I: Crystal Structure I

Crystalline and glassy forms, liquid crystals, crystal structure, periodicity, lattice and basis, crystal translational vectors and axes. Unit cell and Primitive Cell, Winger Seitz primitive Cell, symmetry operations for a two dimensional crystal, Bravais lattices in two and three dimensions. Crystal planes and Miller indices, Interplaner spacing, Crystal structures of Zinc Sulphide, Sodium Chloride and Diamond.

Unit II: Crystal Structure II

X-ray diffraction, Bragg's Law and experimental X-ray diffraction methods. K-space and reciprocal lattice and its physical significance, reciprocal lattice vectors, reciprocal lattice to a simple cubic lattice, b.c.c. and f.c.c.

Unit III: Super conductivity

Historical introduction, Survey of superconductivity, Super conducting systems, High Tc Super conductors, Isotopic Effect, Critical Magnetic Field, Meissner Effect, London Theory and Pippards' equation, Classification of Superconductors (type I and Type II), BCS Theory of Superconductivity, Flux quantization, Josephson Effect (AC and DC), Practical Applications of superconductivity and their limitations, power application of superconductors.

Unit IV: Introduction to Nano Physics

Definition, Length scale, Importance of Nano-scale and technology, History of Nan-technology, Benefits and challenges in molecular manufacturing. Molecular assembler concept, Understanding advanced capabilities. Vision and objective of Nano-technology, Nanotechnology in different field, Automobile, Electronics, Nano-biotechnology, Materials, Medicine.

References:

1 C. Kittel, *Introduction to Solid State Physics*, 7th Ed (1996) John Wiley & Sons, New Delhi.

2 H. Ibach and H. Lüth, *Solid State Physics, An Introduction to Theory and Experiment*, Springer-Verlag, Berlin, 1991

3 Pillai O S, *Solid State Physics*, New Age International Publishers (2007) New Delhi

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4 Mark R and Denial R, *Nano-tecnology* – A Gentle Introduction to the Next Big Idea (2002)
5 M. Tinkham, *Introduction to Superconductivity*, McGraw-Hill, New York, 1975
6 Dekkar A J, Solid State Physics (2000), Mc Millan India Ltd New Delhi
7 Ascroft N W and Mermin N D, Solid State Physics (2003) Harcourt Asia, Singapore
8 Keer H V, Solid State Physics (1993), Wiley Eastern Ltd, New Delhi
9 Kachhava C M, Solid State Physics (1990) Tata Mc Graw Hill Co Ltd, New Delhi
10 Gupta, Solid State Physics (1995) Vikas Publishing House Pvt Ltd, New Delhi

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B.Sc.-III (Physics)

Semester – VI

Subject; Physics

Paper – XII: Atomic and Molecular Spectroscopy

Max. Marks: 45

Internal Assessment: 5

Time: 3 hours

Note:-

1. Nine Questions will be set in total
2. Question number 1 will be compulsory and will be based on the conceptual aspects of entire syllabus. This question may have five parts and the answer should be in brief but not in Yes/ No.
3. For more questions are to be attempted, selecting one question out of two questions set from each unit. Each question may contain two or more parts. All questions will carry equal marks.
4. 20% numerical problems are to be set.
5. Use of scientific (non-programmable) calculator is allowed.

Unit – I: Historical background of atomic spectroscopy

Introduction of early observations, emission and absorption spectra, atomic spectra, wave number, spectrum of Hydrogen atom in Balmer series, Bohr atomic model(Bohr's postulates) , spectra of Hydrogen atom , explanation of spectral series in Hydrogen atom, un-quantized states and continuous spectra, spectral series in absorption spectra, effect of nuclear motion on line spectra (correction of finite nuclear mass), variation in Rydberg constant due to finite mass, short comings of Bohr's theory, Wilson sommerfeld quantization rule, de-Broglie interpretation of Bohr quantization law, Bohr's corresponding principle, Sommerfeld's extension of Bohr's model, Sommerfeld relativistic correction, Short comings of Bohr-Sommerfeld theory, Vector atom model**;** space quantization, electron spin, coupling of orbital and spin angular momentum, spectroscopic terms and their notation, quantum numbers associated with vector atom model, transition probability and selection rules.

Unit –II: Vector Atom Model (single valance electron)

Orbital magnetic dipole moment (Bohr megnaton), behavior of magnetic dipole in external magnetic filed; Larmors' precession and theorem.

Penetrating and Non-penetrating orbits, Penetrating orbits on the classical model**;** Quantum defect, spin orbit interaction energy of the single valance electron, spin orbit interaction for penetrating and non-penetrating orbits. quantum mechanical relativity correction, Hydrogen fine spectra, Main features of Alkali Spectra and their theoretical interpretation, term series and limits, Rydeburg-Ritze combination principle, Absorption spectra of Alkali atoms. observed doublet fine structure in the spectra of alkali metals and its Interpretation, Intensity rules for doublets, comparison of Alkali spectra and Hydrogen spectrum .

UNIT-III: Vector Atom model (two valance electrons)

Essential features of spectra of Alkaline-earth elements, Vector model for two valance electron atom: application of spectra.

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Coupling Schemes;LS or Russell – Saunders Coupling Scheme and JJ coupling scheme, Interaction energy in L-S coupling (sp, pd configuration), Lande interval rule, Pauli principal and periodic classification of the elements. Interaction energy in JJ Coupling (sp, pd configuration), equivalent and non-equivalent electrons, Two valance electron system-spectral terms of non-equivalent and equivalent electrons, comparison of spectral terms in L-S And J-J coupling. Hyperfine structure of spectral lines and its origin; isotope effect, nuclear spin.

Unit –IV: Atom in External Field

Zeeman Effect (normal and Anomalous),Experimental set-up for studying Zeeman effect, Explanation of normal Zeeman effect(classical and quantum mechanical), Explanation of anomalous Zeeman effect(Lande g-factor), Zeeman pattern of D1 and D2 lines of Na-atom, Paschen-Back effect of a single valence electron system. Weak field Stark effect of Hydrogen atom.

Molecular Physics

General Considerations, Electronic States of Diatomic Molecules, Rotational Spectra (Far IR and Microwave Region), Vibrational Spectra (IR Region), Rotator Model of Diatomic Molecule, Raman Effect, Electronic Spectra.

References

1 Beiser A, Concept of Modern Physics (1987), Mc Graw Hill Co Ltd, New Delhi
2 Rajab J B, Atomic Physics (2007), S Chand & Co, New Delhi
3 Fewkes J H and Yarwood J Atomic Physics Vol II (1991) Oxford University Press
4 Bransden B H and Joachain C J, Physics of Atoms and Molecules 2nd Ed (2009), Pearson Education, New Delhi.
5 Banwell, Molecular Spectroscopy
6 Ghoshal S N, Atomic and Nuclear Physics Vol I (1996) S Chand & Co, New Delhi
7 Gopalkrishnan K, Atomic and Nuclear Physics (1982), Mc Millan India New Delhi
8 Raj Kumar, Atomic and Moleculer Spectra:Laser , Kedarnath Ram nathpub.
9 S.L.Gupta, V.Kumar,R.C.Sharma, Elements of Spectroscopy,Pragati Prakashan.

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B.Sc.-III (Physics)
Semester- VI

Paper: (Physics Lab Practicals)

Max. Marks: 100

Time: 3+3 hours (on two days)

Special Note:-

1. Do any eight experiments from each Section.
2. The students are required to calculate the error involved in a particular experiment.

Note:- The Practical examination will be held in two sessions of 3 hours each (first session in the evening of first day and the second session in the morning of the next day).

1. Distribution of Marks:

Experiments	25+25	50 marks
Viva- voce	15+15	30 marks
Lab. Record		20 marks
Tolal		100 marks

For giving marks under Lab. Record each college will maintain practical assessment record by using the following procedure:-

1. Each student has to perform a minimum number of experiments prescribed in the syllabus.
2. After the completion of a practical the teacher concerned will check the note book and conduct the Viva – voce of each student to find out how much concepts related to the theoretical and experimental part of the experiment he/ she has understood. According to his/her performance marks will be recorded on their practical note-book. These marks will constitute the lab. Record.
3. To compute the final marks for lab. Record, a separate register will be maintained. Each student will be assigned separate page on this register. On this page the marks obtained by the student in different practicals will be entered. This record will be signed by the concerned teacher.
4. The lab. Record register will be presented to the external practical examiners from Lab. Record marks. These external examiners will verify the record randomly.

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Section A

(i) Electronics, Solid State and Nuclear Physics– 4 Experiments
1 Determine e/m by Thomson's method
2 Study the C B transistor amplifier
3 Study the C E transistor amplifier
4 Study the B H curve using oscilloscope
5 Study the Hall effect
6 Measurement of energy band gap of Ge/Si by four probe method
7 (a) Draw the plateau using G M counter (b) Determine the mass attenuation coefficient by G M counter
(ii) Computer experiments –4 Experiments
8 Compute the product of two matrices of different dimension using DO loop
9 Numerical integration by Simpson 1/3 rule
10 Fitting of a straight line using Least-Square method
11 Using array variable, find out the average and standard deviation
12 Compute the sum of a finite series up to correct three decimal place
13 With the help of a program arrange the marks in ascending of descending order
14 Write a program to evaluate the function $Y=1 / [C (1 + e \cos \theta)]$ and $V=\sqrt{ [C M G (e2 + e \cos \theta + 1)]}$ $e = 1.1$, $C = 3.0(E+08)$, $M = 5.893(E+24)$, $G = 6.67(E-11)$ for varying value of θ from 0 to π.

Section B

15 Determine the λ_{Na} by Fresnel Byprism
16 Determine the velocity of ultrasonic in the Kerosene oil
17 Diameter of a Lycopodium powder using corona rings
18 Study double slit interference by He-Ne laser
19 Determine the diameter of a wire using (He-Ne Laser) diffraction method
20 Determine the Young modulus 'Y' by Searl's interference method
21 Determine the resolving power of a prism
22 Thickness of a paper using interference fringes in an air wedge
23 Determine the resolving power of a transmission grating
24 Determine the R_H by grating and Hydrogen tube

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References:

1 Worshnop and Flint, Advanced Practical Physics
2 Nelkon M and Ogborn, Advanced Level Practical Physics, Heinemann Education Books Ltd, New Delhi
3 Srivastava S S and Gupta M K, Experiments in Electronics, Atma Ran & Sons, Delhi
4 Gupta S L and Kumar V, Practical Physics, Pragati Prakashan, Meerut.

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B.Sc. (Computer Science) – First Year

Paper No.	Title of Paper	External Marks	Internal Assessment	Maximum Marks	Pass Marks	Exam Durations
	Semester I					
I	Computer Fundamentals & Programming in 'C'	40	5	45	16	3hrs
II	Logical Organization of Computer-I	40	5	45	16	3hrs
III	Practical (Programming in 'C')			60	24	3hrs
	Semester II					
IV	PC-Software	40	5	45	16	3hrs
V	Logical Organization of Computer –II	40	5	45	16	3hrs
VI	Practical (PC-Software)			60	24	3hrs

B.Sc. (Computer Science) - Second Year

Paper No.	Title of Paper	External Marks	Internal Assessmen	Maximum Marks	Pass Marks	Exam Durations
	Semester III					
I	Data Structures using 'C'	40	5	45	16	3hrs
II	Structured System Analysis & Design	40	5	45	16	3hrs
III	Practical (Implementation of data structure in 'C')			60	24	3hrs
	Semester IV					
IV	Operating Systems	40	5	45	16	3hrs
V	Programming in Visual Basic	40	5	45	16	3hrs
VI	Practical (Visual Basic)			60	24	3hrs

B.Sc. (Computer Science) - Third Year

Paper No.	Title of Paper	External Marks	Internal Assessment	Maximum Marks	Pass Marks	Exam Durations
	Semester V					
I	Programming in 'C++'	40	5	45	16	3hrs
II	Introduction to Data Base Systems	40	5	45	16	3hrs
III	Practical ('C++')			60	24	3hrs
	Semester VI					
IV	Computer Networks	40	5	45	16	3hrs
V	Relational Database Management System	40	5	45	16	3hrs
VI	Practical (ORACLE)			60	24	3hrs

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PAPER I PROGRAMMING in 'C++'

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of six (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

Maximum Marks: 45 **External: 40**
Minimum Pass Marks: 16 **Internal: 5**
Time: 3 hours

UNIT – I

Introduction to Programming C++: Object-Oriented Features of C++, Class and Objects, Data Hiding & Encapsulation, Structures, Data members and Member functions, Inline Functions, Static Data Members and Member Functions, Friend Functions, Preprocessor Directives, Namespace, Comparing C with C++.

UNIT – II

Constructors & Destructors: Roles and types of Constructors, Roles of Destructors, Dynamic Memory Allocation: Pointers and their Manipulation, new and delete Operators 'this' Pointer.
Console I/O: Formatted and Unformatted I/O, Manipulators.

UNIT – III

Compile-Time Polymorphism: Unary and Binary Operators overloading through Member Functions and Friend Functions, Function Overloading.
Inheritance: Types of Derivations, Forms of Inheritance, Roles of Constructors and Destructors in Inheritance.

UNIT – IV

Genericity in C++: Template Function, Template Class, Inheritance and Templates.
Exception Handling: try, throw and catch constructs, rethrowing an exception, catch all Handlers.

TEXT BOOKS:

1. Herbert Scildt, C++, The Complete Reference, Tata McGraw-Hill
2. Robert Lafore, Object Oriented Programming in C++, PHI

REFERENCE BOOKS:

1. Bjarne Stroustrup, The C++ Programming Language, Pearson.
2. Balaguruswami, E., Object Oriented Programming In C++, Tata McGraw-Hill

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PAPER – II INTRODUCTION TO DATABASE SYSTEMS

Note: **Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of six (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.**

Maximum Marks: 45 **External: 40**
Minimum Pass Marks: 16 **Internal: 5**
Time: 3 hours

UNIT – I

Basic Concepts – Data, Information, Records and files. Traditional file –based Systems-File Based Approach-Limitations of File Based Approach, Database Approach-Characteristics of Database Approach, Database Management System (DBMS), Components of DBMS Environment, DBMS Functions and Components, Advantages and Disadvantages of DBMS.
Roles in the Database Environment - Data and Database Administrator, Database Designers, Applications Developers and Users.

UNIT – II

Database System Architecture – Three Levels of Architecture, External, Conceptual and Internal Levels, Schemas, Mappings and Instances.
Data Independence – Logical and Physical Data Independence.
Classification of Database Management System, Centralized and Client Server architecture to DBMS.
Data Models: Records- based Data Models, Object-based Data Models, Physical Data Models and Conceptual Modeling.

UNIT – III

Entity-Relationship Model – Entity Types, Entity Sets, Attributes Relationship Types, Relationship Instances and ER Diagrams.
Basic Concepts of Hierarchical and Network Data Model.

UNIT – IV

Relational Data Model:-Brief History, Relational Model Terminology-Relational Data Structure, Database Relations, Properties of Relations, Keys, Domains, Integrity Constraints over Relations, Base Tables and Views.

TEXT BOOKS:

1. Elmasri & Navathe, "Fundamentals of Database Systems", 5th edition, Pearson Education.

REFERENCE BOOKS:

1. Thomas Connolly Carolyn Begg, "Database Systems", 3/e, Pearson Education
2. C. J. Date, "An Introduction to Database Systems", 8th edition, Addison Wesley N. Delhi.

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PAPER IV COMPUTER NETWORKS

Note: **Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of six (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.**

Maximum Marks: 45 **External: 40**
Minimum Pass Marks: 16 **Internal: 5**
Time: 3 hours

UNIT – I

Introduction to Computer Communications and Networking Technologies; Uses of Computer Networks; Network Devices, Nodes, and Hosts; Types of Computer Networks and their Topologies; Network Software: Network Design issues and Protocols; Connection-Oriented and Connectionless Services; Network Applications and Application Protocols; Computer Communications and Networking Models: Decentralized and Centralized Systems, Distributed Systems, Client/Server Model, Peer-to-Peer Model, Web-Based Model, Network Architecture and the OSI Reference Model; Example Networks: The Internet, X.25, Frame Relay, ATM;

UNIT – II

Analog and Digital Communications Concepts: Representing Data as Analog Signals, Representing Data as Digital Signals, Data Rate and Bandwidth, Capacity, Baud Rate; Digital Carrier Systems; Guided and Wireless Transmission Media; Communication Satellites; Switching and Multiplexing; Dialup Networking; Analog Modem Concepts; DSL Service;

UNIT – III

Data Link Layer: Framing, Flow Control, Error Control; Error Detection and Correction; Sliding Window Protocols; Media Access Control: Random Access Protocols, Token Passing Protocols; Token Ring; Introduction to LAN technologies: Ethernet, switched Ethernet, VLAN, fast Ethernet, gigabit Ethernet, token ring, FDDI, Wireless LANs; Bluetooth;
Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards, Bridges, Switches, Routers, Gateways;

UNIT – IV

Network Layer and Routing Concepts: Virtual Circuits and Datagrams; Routing Algorithms; Congestion Control Algorithms; Internetworking;
Network Security Issues: Security threats; Encryption Methods; Authentication; Symmetric –Key Algorithms; Public-Key Algorithms;

TEXT BOOKS:

1. Michael A. Gallo, William M. Hancock, "Computer Communications and Networking Technologies", CENGAGE Learning.
2. Andrew S. Tanenbaum, "Computer Networks", Pearson Education.

REFERENCE BOOKS:

1. James F. Kurose, Keith W. Ross, "Computer Networking", Pearson Education.
2. Behrouz A Forouzan, "Data Communications and Networking", McGraw Hill.

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PAPER – V RELATIONAL DATABASE MANAGEMENT SYSTEM

Note: **Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of six (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.**

Maximum Marks: 45 **External: 40**
Minimum Pass Marks: 16 **Internal: 5**
Time: 3 hours

UNIT – I

Relational Model Concepts, Codd's Rules for Relational Model,
Relational Algebra:-Selection and Projection, Set Operation, Renaming, Join and Division.
Relational Calculus: Tuple Relational Calculus and Domain Relational Calculus.

UNIT – II

Functional Dependencies and Normalization:-Purpose, Data Redundancy and Update Anomalies.
Functional Dependencies:-Full Functional Dependencies and Transitive Functional Dependencies, Characteristics of Functional Dependencies.
Decomposition and Normal Forms (1NF, 2NF, 3NF & BCNF).

UNIT – III

SQL: Data Definition and data types, Specifying Constraints in SQL, Schema, Change statement, Basic Queries in SQL, Insert, Delete and Update Statements, Views.

UNIT – IV

PL/SQL-Introduction, Advantages of PL/SQL,
The Generic PL/SQL Block: PL/SQL Execution Environment,
PL/SQL Character set and Data Types,
Control Structure in PL/SQL.

TEXT BOOKS:

1. Elmasri & Navathe, "Fundamentals of Database Systems", 5th edition, Pearson Education.
2. Ivan Bayross, "SQL, PL/SQL-The Programming Language of ORACLE", BPB Publications 3rd edition.

REFERENCE BOOKS:

1. C. J. Date, "An Introduction to Database Systems", 8th edition, Addison Wesley N. Delhi.

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B.Sc. (Computer Applications) Vocational - First Year

Paper No.	Title of Paper	External Marks	Internal Assessment	Max. Marks	Pass Marks	Exam Duration
	Semester – I					
I	Introduction to PC & Windows Operating System	40	5	45	16	3hrs
II	Application Software	40	5	45	16	3hrs
III	Practical (Windows, Word, Excel, Power Point)			60	24	3hrs
	Semester – II					
IV	Introduction to Information Technology	40	5	45	16	3hrs
V	Programming Fundamental	40	5	45	16	3hrs
VI	Practical (C Language)			60	24	3hrs

B.Sc. (Computer Applications) Vocational - Second Year

Paper No.	Title of Paper	External Marks	Internal Assessment	Max. Marks	Pass Marks	Exam Duration
	Semester – III					
I	Introduction to Web Designing – I	40	5	45	16	3hrs
II	RDBMS using MS-Access	40	5	45	16	3hrs
III	Practical (HTML and MS-Access)			60	24	3hrs
	Semester – IV					
IV	Introduction to Web Designing – II	40	5	45	16	3hrs
V	Management Information System	40	5	45	16	3hrs
VI	Practical (Web Designing)			60	24	3hrs

B.Sc. (Computer Applications) Vocational - Third Year

Paper No.	Title of Paper	External Marks	Internal Assessment	Max. Marks	Pass Marks	Exam Duration
	Semester – V					
I	Multimedia Tools	40	5	45	16	3hrs
II	Desktop Publishing	40	5	45	16	3hrs
III	Practical			60	24	3hrs
	Semester – VI					
IV	Introduction to Linux	40	5	45	16	3hrs
V	Introduction to .Net	40	5	45	16	3hrs
VI	Practical (Linux and .Net)			60	24	3hrs

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PAPER – I MULTIMEDIA TOOLS

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of six (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

Maximum Marks: 45 **External: 40**
Minimum Pass Marks: 16 **Internal: 5**
Time: 3 hours

UNIT – I

Multimedia Introduction: Definition, Characteristics, Desirable Features, Multimedia Contents/Objects, A Framework for multimedia systems, Application of multimedia, Multimedia software tools
Multimedia devices: Multimedia Input devices, Output devices

UNIT – II

Multimedia Communication devices, Memory & Storage Devices, CD-Audio, CD-ROM, CD-I, Presentation devices & The User Interfaces
Multimedia Authoring & Presentation: Design Issues for Multimedia Authoring, Types of Multimedia Authoring Systems, Authoring Tools, Presentation Tools

UNIT – III

Multimedia Servers & its Types, Multimedia Databse, Professional development tools
Multimedia & Networking: LAN & Multimedia, Internet, Internetworking, Internet Service - World Wide Web, Multimedia tools for www
Distribution Network: ATM, ADSL

UNIT – IV

Multimedia Techniques: 2D, 3D Computer Graphics
Animation Techniques: Cell Animation, Computer Animation, Kinematics, Morphing, RotoScoping, Antialiasing, Video on demand, Shading

TEXT AND REFERENCE BOOKS:

1. Tay Vaughan "Multimedia making it work", Tata McGraw Hill
2. Prabat K Andleigh and Kiran Thakrar, "Multimedia Systems and Design", PHI
3. Rohit Goel and Mukta Goel, "Multimedia Technology", Dhanpat Rai & Co.

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PAPER – II DESKTOP PUBLISHING

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of six (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

Maximum Marks: 45 **External: 40**
Minimum Pass Marks: 16 **Internal: 5**

UNIT – I

Desktop Publishing: Concept, Need and Applications; Hardware and Software requirements for DTP, An Overview and comparison between DTP packages, Common features of DTP.
Introduction to Page Maker: Features, System Requirements, Components of Page Maker Window, Introduction to Menu and Toolbars, PageMaker Preferences

UNIT – II

Creating of Publications: Starting PageMaker, Setting Page size, Placing the text
Formatting the text: Character Specification
Paragraph setting: Paragraph Specification, Paragraph Rules, Spacing, Indents/Tabs, Define Styles, Hyphenation, Header & Footer, Page Numbering, Saving and Closing publication

UNIT – III

Editing Publication: Open a publication ,Story editor, Find and change the text, Change character and Paragraph attributes ,spell checking ,Selecting text, Cut, Copy, Paste, Paste multiple, Working with columns,
Control palette: Manipulating objects, formatting the text,
Book, Table of Contents, Creating Index, Index entry, Show Index, Print
Working with Graphics: Insert Objects, Paste Special, Linking the graphics, Link the option, Link Information, editing original ,Text wrap, Bring to Front, Send to Back, Reversing the Text.

UNIT – IV

Working with Frame: Introduction, Creating Frames, editing, Frame options, Dialog Box, Text Frame
Working with colors: Introduction, Applying colors, Replacing &removing colours, Editing a color
Working with Table: Setting &creating a new table, Close table, Selecting text, Cell rows & columns Typing, Editing & Formatting text in table, Cutting, Copying & Pasting Information
Setting up Master Pages: Design a Grid, Guiding the Grid, Understanding Master Pages, Rulers options.

TEXT BOOKS:

1. PageMaker-Complete by R. Shamms, Mortier &Rick Wallacl ,Techmedia
2. Learning PageMaker 7 by Ramesh Bangia of Khanna Book Publishing Co Pvt Ltd

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PAPER – IV INTRODUCTION TO LINUX

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of six (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

Maximum Marks: 45 **External: 40**
Minimum Pass Marks: 16 **Internal: 5**
Time: 3 hours

UNIT – I

Introduction to Linux: Linux distributions, Overview of Linux operating system, Linux architecture, Features of Linux, Accessing Linux system, Starting and shutting down system, Logging in and Logging out. Comparison of Linux with other operating systems.

UNIT – II

Commands in Linux: General-Purpose commands, File oriented commands, directory oriented commands, Communication-oriented commands, process oriented commands, etc.
Regular expressions & Filters in Linux: Simple filters viz. more, wc, diff, sort, uniq, grep. Introducing regular expressions.

UNIT – III

Linux/Unix file system: Linux/Unix files, inodes and structure and file system, file system components, standard file system, file system types.
Processes in Linux: starting and stopping processes, initialization Processes, mechanism of process creation, Job control in linux using at, batch, cron & time.

UNIT – IV

Shell Programming: VI editor, shell variables, I/O in shell, control structures, loops, subprograms, creating & executing shell scripts in linux.

TEXT BOOKS:

1. Yashwant Kanetkar, UNIX & Shell programming – BPB.
2. M.G.Venkateshmurthy, Introduction to UNIX & Shell Programming, Pearson Education.
3. Richard Petersen, The Complete Reference – Linux, McGraw-Hill.

REFERENCE BOOKS:

1. Stephen Prata, Advanced UNIX – A programmer's Guide, SAMS.
2. Sumitabha Das, Your UNIX - The Ultimate Guide, Tata McGraw-Hill.

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PAPER – V INTRODUCTION TO .NET

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of six (objective type/short-answer type) questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

Maximum Marks: 45 **External: 40**
Minimum Pass Marks: 16 **Internal: 5**
Time: 3 hours

UNIT – I

The Framework of .Net: Building blocks of .Net Platform (the CLR, CTS and CLS), Features of .Net, Deploying the .Net Runtime, Architecture of .Net platform, Introduction to namespaces & type distinction. Types & Object in .Net, the evolution of Web development.

UNIT – II

Class Libraries in .Net, Introduction to Assemblies & Manifest in .Net, Metadata & attributes.
Introduction to C#: Characteristics of C#, Data types: Value types, reference types, default value, constants, variables, scope of variables, boxing and unboxing.

UNIT – III

Operators and expressions: Arithmetic, relational, logical, bitwise, special operators, evolution of expressions, operator precedence & associativity.
Control constructs in C#: Decision making, loops.
Classes & methods: Class, methods, constructors, destructors, overloading of operators & functions.

UNIT – IV

Inheritance & polymorphism: visibility control, overriding, abstract class & methods, sealed classes & methods, interfaces.
Advanced features of C#: Exception handling & error handling, automatic memory management, Input and output (Directories, Files, and streams).

TEXT BOOKS:

1. Introduction to C# using .NET By Robert J. Oberg, PHI, 2002.
2. Programming in C# By E. Balaguruswamy, Tata McGraw Hill

REFERENCES BOOKS:

1. The Complete Guide to C# Programming by V. P. Jain
2. C# : A Beginner's Guide, Herbert Schildt, Tata McGraw Hill
3. C# and .NET Platform by Andrew Troelsen, Apress, 1st edition, 2001

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BACHELOR OF COMPUTER APPLICATIONS
SCHEME OF EXAMINATION – THIRD YEAR

Paper No.	Title of Paper	External Marks	Internal Assessment	Maximum Marks	Pass Marks	Exam Duration
	Semester - V					
BCA-351	Introduction to Object oriented Programming	90	10	100	35	3hrs
BCA-352	Operating Systems	90	10	100	35	3hrs
BCA-353	Software Engineering	90	10	100	35	3hrs
BCA-354	Computer Networks	90	10	100	35	3hrs
BCA-355	Computer Graphics	90	10	100	35	3hrs
BCA-356	Web Designing – II	90	10	100	35	3hrs
BCA-357	Lab – I Programming in 'C++			100	35	3hrs
BCA-358	Lab – II Web designing			100	35	3hrs
	Semester - VI					
BCA-361	Programming in 'C++'	90	10	100	35	3hrs
BCA-362	Introduction to Linux	90	10	100	35	3hrs
BCA-363	Internet Technology	90	10	100	35	3hrs
BCA-364	Visual Basic	90	10	100	35	3hrs
BCA-365	Multimedia Technology	90	10	100	35	3hrs
BCA-366	Introduction to .NET	90	10	100	35	3hrs
BCA-367	Lab – I Linux and C++			100	35	3hrs
BCA-368	Lab – II Programming in VB			100	35	3hrs

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BCA – 351 INTRODUCTION TO OBJECT ORIENTED PROGRAMMING

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Object oriented Programming: Object-Oriented programming features and benefits. Object-Oriented features of C++, Class and Objects, Data Hiding & Encapsulation, Structures, Data members and Member functions, Static Data Members and Member Functions, Nested and Local Class, Accessing Members of Class and Structure, Preprocessor Directives, Namespace.

UNIT – II

Initialization & Cleanup: Constructors – Default, Parameterized & Copy Constructors, and Default Values to Parameters, Destructors.
Console I/O: Hierarchy of Console Stream Classes, Unformatted And Formatted I/O Operations, Manipulators.

UNIT – III

Friend Function, Friend Class, Arrays, array of Objects, Passing and Returning Objects to Functions, String Handling in C++.
Dynamic Memory Management: Pointers, new and delete Operator, Array of Pointers to Objects, this Pointer, Passing Parameters to Functions by Reference & pointers.

UNIT – IV

Static Polymorphism: Operators in C++, Precedence and Associativity Rules, Operator Overloading, Unary & Binary Operators Overloading, Function Overloading, Inline and External Linkage Functions, Merits/Demerits of Static Polymorphism.

TEXT BOOKS:

1. Herbert Scildt, C++, The Complete Reference, Tata McGraw-Hill
2. Robert Lafore, Object Oriented Programming in C++

REFERENCE BOOKS:

1. Bjarne Stroustrup, The C++ Programming Language, Pearson
2. Balaguruswami, E., Object Oriented Programming In C++, Tata McGraw-Hill

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BCA – 352 OPERATING SYSTEMS

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Introductory Concepts: Operating system functions and characteristics, historical evolution of operating systems, Real time systems, Distributed systems, Methodologies for implementation of O/S service system calls, system programs.

UNIT – II

Process management: Process concepts, Process states and Process Control Block.
CPU Scheduling: Scheduling criteria, Levels of Scheduling, Scheduling algorithms, Multiple processor scheduling.
Deadlocks: Deadlock characterization, Deadlock prevention and avoidance, Deadlock detection and recovery, practical considerations.

UNIT – III

Concurrent Processes: Critical section problem, Semaphores, Classical process co-ordination problems and their solutions, Inter-process Communications.
Storage Management: memory management of single-user and multiuser operating system, partitioning, swapping, paging and segmentation, virtual memory, Page replacement Algorithms, Thrashing.

UNIT – IV

Device and file management: Disk scheduling, Disk structure, Disk management, File Systems: Functions of the system, File access and allocation methods, Directory Systems: Structured Organizations, directory and file protection mechanisms.

TEXT BOOKS:

1. Silberschatz A., Galvin P.B.,and Gagne G., "Operating System Concepts", John Wiley & Sons, Inc.,New York.
2. Godbole, A.S., "Operating Systems", Tata McGraw-Hill Publishing Company, New Delhi.

REFERENCE BOOKS:

1. Deitel, H.M., "Operating Systems", Addison- Wesley Publishing Company, New York.
2. Tanenbaum, A.S., "Operating System- Design and Implementation", Prentice Hall of India, New Delhi.

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BCA – 353 SOFTWARE ENGINEERING

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Software Crisis – problem and causes, Software life cycle models: Waterfall, Prototype, Evolutionary and Spiral models.
Software Project Planning: Cost estimation: COCOMO model, Putnam Resource Allocation Model, Risk management, project scheduling, personnel planning, team structure, Software configuration management, quality assurance, project monitoring.

UNIT – II

Software Requirement Analysis and Specifications: Structured Analysis, Data Flow Diagrams, Data Dictionaries, Entity-Relationship diagrams, Software Requirement and Specifications, Behavioral and non-behavioral requirements.
Software Design: Design fundamentals, problem partitioning and abstraction, design methodology, Cohesion & Coupling, Classification of Cohesiveness & Coupling.

UNIT – III

Coding: Programming style, structured programming.
Software Testing: Testing fundamentals, Functional testing: Boundary Value Analysis, Equivalence class testing, Decision table testing, Cause effect graphing, Structural testing: Control flow based and data flow based testing, loop testing;

UNIT – IV

Software testing strategies: unit testing, integration testing, Validation testing, System testing, Alpha and Beta testing.
Software Maintenance: Type of maintenance, Management of Maintenance, Maintenance Process, maintenance characteristics.

TEXT BOOKS:

1. Pressman R. S., "Software Engineering – A Practitioner's Approach", Tata McGraw Hill.
2. Jalote P., "An Integrated approach to Software Engineering", Narosa.

REFERENCE BOOKS:

1. Sommerville, "Software Engineering", Addison Wesley.
2. Fairley R., "Software Engineering Concepts", Tata McGraw Hill.
3. James Peter, W Pedrycz, "Software Engineering", John Wiley & Sons.

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BCA – 354 COMPUTER NETWORKS

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Introduction to Computer Communications and Networking Technologies; Uses of Computer Networks; Network Devices, Nodes, and Hosts; Types of Computer Networks and their Topologies; Network Software: Network Design issues and Protocols; Connection-Oriented and Connectionless Services; Network Applications and Application Protocols; Computer Communications and Networking Models: Decentralized and Centralized Systems, Distributed Systems, Client/Server Model, Peer-to-Peer Model, Web-Based Model, Network Architecture and the OSI Reference Model; Example Networks: The Internet, X.25, Frame Relay, ATM;

UNIT – II

Analog and Digital Communications Concepts: Representing Data as Analog Signals, Representing Data as Digital Signals, Data Rate and Bandwidth, Capacity, Baud Rate; Digital Carrier Systems; Guided and Wireless Transmission Media; Communication Satellites; Switching and Multiplexing; Dialup Networking; Analog Modem Concepts; DSL Service;

UNIT - III

Data Link Layer: Framing, Flow Control, Error Control; Error Detection and Correction; Sliding Window Protocols; Media Access Control: Random Access Protocols, Token Passing Protocols; Token Ring; Introduction to LAN technologies: Ethernet, switched Ethernet, VLAN, fast Ethernet, gigabit Ethernet, token ring, FDDI, Wireless LANs; Bluetooth;

Network Hardware Components: Connectors, Transceivers, Repeaters, Hubs, Network Interface Cards and PC Cards, Bridges, Switches, Routers, Gateways;

UNIT – IV

Network Layer and Routing Concepts: Virtual Circuits and Datagrams; Routing Algorithms: Flooding, Shortest Path Routing, Distance Vector Routing; Link State Routing, Hierarchical Routing; Congestion Control Algorithms; Internetworking;
Network Security Issues: Security threats; Encryption Methods; Authentication; Symmetric –Key Algorithms; Public-Key Algorithms;

TEXT BOOKS:

1. Michael A. Gallo, William M. Hancock, "Computer Communications and Networking Technologies", CENGAGE Learning.
2. Andrew S. Tanenbaum, "Computer Networks", Pearson Education.

REFERENCE BOOKS:

1. James F. Kurose, Keith W. Ross, "Computer Networking", Pearson Education.
2. Behrouz A Forouzan, "Data Communications and Networking", McGraw Hill.

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BCA – 355 COMPUTER GRAPHICS

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Overview of Computer Graphics: Historical background of Computer Graphics; Applications of Computer Graphics; Popular Graphics Softwares; Display devices: Pixel, Resolution, Aspect Ratio; Raster-Scan Systems and Display : CRT, Refresh Rate and Interlacing; Bit Planes, Color Depth and Color Palette, Frame Buffer, Video Controller, Raster-Scan Display Processor, Lookup Table, RGB Color Model, Color CRT monitors; Random-Scan Displays; Flat Panel Display : LCD, Plasma Panel; Graphics Monitors and Workstations; Popular Graphics Input Devices; Hard-Copy Devices;

UNIT – II

Coordinate Representations; Graphics Primitives: Line Drawing Algorithms- DDA Algorithm, Bresenham's Algorithm; Different Line Styles; Circle-Generating Algorithms- Properties of Circles, Circle Drawing using Polar Coordinates, Bresenham's Circle Drawing Algorithm; Ellipse-Generating Algorithms; Anti-aliasing;

UNIT – III

Geometric Transformations: Scaling, Translation, Rotation; Matrix Representations and Homogeneous Coordinates; Rotation Relative to an Arbitrary Point; Reflection; Shearing; Coordinate Transformation; Inverse Transformation; Affine Transformation; Raster Transformation; Composite Transformations; Fixed-point Scaling; Input Techniques: Pointing, Positioning, Rubber-band method, Dragging;

UNIT – IV

Two-Dimensional Viewing: Window-to-Viewport Coordinate Transformation; Zooming; Panning; Clipping: Point Clipping, Line Clipping- Cohen-Sutherland line clipping, Mid-point Subdivision Line Clipping; Polygon Clipping – Sutherland-Hodgeman Polygon Clipping; Text Clipping; Graphics in Three Dimensions: Displays in Three Dimensions, 3-D Transformations; 3-D Viewing : Viewing Parameters, Projections, Parallel and Perspective projection; Hidden Surfaces: Z-Buffer Method, Painter's Algorithm;

TEXT BOOKS:

1. "Computer Graphics", Donald Hearn, M. Pauline Baker, PHI.
2. "Computer Graphics", Apurva A. Desai, PHI, 2010

REFERENCE BOOKS:

1. "Principles of Interactive Computer Graphics", Newmann & Sproull, McGraw Hill.
2. "Computer Graphics Principles & Practice", Foley etc. Addison Wesley.
3. "Procedural Elements of Computer Graphics", Rogers, McGraw Hill.
4. "Introduction to Computer Graphics and Multimedia", Anirban Mukhopadhyay, Arup Chattopadhyay, Vikas.
5. "Computer Graphics", Zhigang Xiang, Roy Plastock, Tata McGraw Hill.
6. "Fundamentals of Computer Graphics and Multimedia", D.P. Mukherjee, PHI.

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BCA-356 Web DESIGNING – II

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Brief Introduction to Interactivity tools: CGI; Features of Java; Java Script; Features of ASP; VBScript; Macromedia Flash; Macromedia Dreamweaver; PHP;

UNIT – II

Introduction and Features of Adobe Photoshop; Microsoft FrontPage Introduction; Features; Title Bar; Menu bar; FrontPage Tool Bar; Style, FontFace andFormatting Bar; Scroll Bars;

UNIT – III

Introduction to DHTML and its features; Events; Cascading Style Sheets: Creating Style Sheets; Common Tasks with CSS: Text, Fonts, Margins, Links, Tables, Colors; Marquee; Mouseovers; Filters and Transitions; Adding Links; Adding Tables; Adding Forms; Adding Image and Sound;

UNIT – IV

Extensible Mark-up Language(XML): Introduction; Features; XML Support and Usage; Structure of XML Documents; Structures in XML;Creating Document Type Declarations; Flow Objects; Working with Text andFont; Color and Background properties;

TEXT BOOKS:

1. Internet and Web Technologies, Raj Kamal, Tata McGraw-Hill.
2. Multimedia and Web Technology, Ramesh Bangia, Firewall Media.
3. Internet and Web Design, ITLESL Research and Development Wing, Macmillan India .

REFERENCE BOOKS:

1. Web Design: The Complete Reference , 4/e, Thomas A. Powell, Tata McGraw-Hill
2. Internet and World Wide Web, How to Program, Deitel and Goldberg, PHI.

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BCA – 361 PROGRAMMING IN 'C++'

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Inheritance: Rules of Derivations – Private, Protected and Public Derivations, Different Forms of Inheritance – Single, Multiple, Multilevel, Hierarchical and Multipath Inheritance, Roles of Constructors and Destructors in Inheritance.

UNIT – II

Dynamic Polymorphism: Function Overriding, Virtual Function and its Need, Pure Virtual Function, Abstract Class, Virtual Derivation, Virtual Destructor.

Type Conversion: Basic Type Conversion, Conversion Between Objects And Basic Types, Conversion Between Objects Of Different Classes.

UNIT – III

Genericity in C++: Template Function, Template Class, Inheritance and Templates.

Exception Handling: try, throw and catch constructs, rethrowing an exception, catch all Handlers.

UNIT – IV

Files I/O in C++: Class Hierarchy for Files I/O, Text versus Binary Files, Opening and Closing Files, File Pointers, Manipulators and Error Handling.

TEXT BOOKS:

1. Herbert Scildt, C++, The Complete Reference, Tata McGraw-Hill
2. Robert Lafore, Object Oriented Programming in C++

REFERENCE BOOKS:

1. Bjarne Stroustrup, The C++ Programming Language, Pearson.
2. Balaguruswami, E., Object Oriented Programming In C++, Tata McGraw-Hill

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BCA – 362 INTRODUCTION TO LINUX

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Introduction to Linux: Linux distributions, Overview of Linux operating system, Linux architecture, Features of Linux, Accessing Linux system, Starting and shutting down system, Logging in and Logging out. Comparison of Linux with other operating systems.

UNIT – II

Commands in Linux: General-Purpose commands, File oriented commands, directory oriented commands, Communication-oriented commands, process oriented commands, etc.
Regular expressions & Filters in Linux: Simple filters viz. more, wc, diff, sort, uniq, grep. Introducing regular expressions.

UNIT – III

Linux file system: Linux files, inodes and structure and file system, file system components, standard file system, file system types.
Processes in Linux: starting and stopping processes, initialization Processes, mechanism of process creation, Job control in linux using at, batch, cron & time.

UNIT – IV

Shell Programming: VI editor, shell variables, I/O in shell, control structures, loops, subprograms, creating & executing shell scripts in linux.

TEXT BOOKS:

1. Yashwant Kanetkar, UNIX & Shell programming – BPB.
2. M.G.Venkateshmurthy, Introduction to UNIX & Shell Programming, Pearson Education.
3. Richard Petersen, The Complete Reference – Linux, McGraw-Hill.

REFERENCE BOOKS:

1. Stephen Prata, Advanced UNIX – A programmer's Guide, SAMS.
2. Sumitabha Das, Your UNIX - The Ultimate Guide, Tata McGraw-Hill.

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BCA – 363 INTERNET TECHNOLOGY

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Internet and TCP/IP: Introduction to the Internet; Internet History, Internet Administration; Internet and Intranet; Internet Services; TCP/IP model and its protocols; IP addresses: IPv4; Subnetting IPv4addresses; Supernetting; Next generation Internet Protocol (IPv6); The need for IPv6; Packet Format; IPv6 Addresses; Extension Headers;

UNIT – II

TCP/IPs Transport and Network Layer Protocols: Role of TCP, UDP, IP, and Port numbers; Format of TCP, UDP and IP; TCP services; TCP connection management; Remote Procedure Call; SCTP; IP address resolution- DNS; Domain Name Space; DNS mapping; Recursive and Iterative resolution; Resource records; Mapping Internet Addresses to Physical Addresses; ARP, RARP, BOOTP, DHCP; ICMP; IGMP;

UNIT – III

TCP/IP Application Level Protocols: Electronic Mail : Architecture; SMTP, MIME, POP, IMAP; Web Based Mail; File Access and Transfer: FTP, Anonymous FTP, TFTP, NFS; Remote Login using TELNET; Voice and Video over IP: RTP, RTCP, IP Telephony and Signaling, Resource Reservation and Quality of Service, RSVP;

UNIT – IV

Routing in Internet: RIP, OSPF, BGP; Internet Multicasting; Mobile IP; Private Network Interconnection: Network Address Translation (NAT), Virtual Private Network (VPN); Internet Management: SNMP; Internet Security: IPSec, E-Mail Security; Web Security; Firewalls; Digital Signatures; Certificates;

TEXT BOOKS

1. Douglas E. Comer, "Internetworking with TCP/IP Volume – I, Principles, Protocols, and Architectures", Fourth Edition, Pearson Education.
2. Andrew S. Tanenbaum, "Computer Networks", Pearson Education.

REFERENCE BOOKS:

1. Behrouz A Forouzan, "Data Communications and Networking", McGraw Hill.
2. Michael A. Gallo, William M. Hancock, "Computer Communications and Networking Technologies", CENGAGE Learning.
3. James F. Kurose, Keith W. Ross, Computer Networking, A Top-Down Approach Featuring the Internet, Pearson Education.
4. "Introduction to Data Communications and Networking", Wayne Tomasi, Pearson Education.

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BCA – 364 VISUAL BASIC

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Introduction to VB: Visual & non-visual programming, Procedural, Object-oriented and event-driven programming languages, The VB environment: Menu bar, Toolbar, Project explorer, Toolbox, Properties window, Form designer, Form layout, Immediate window. Visual Development and Event Driven programming.

UNIT – II

Basics of Programming: Variables: Declaring variables, Types of variables, Converting variables types, User-defined data types, Forcing variable declaration, Scope & lifetime of variables. Constants: Named & intrinsic. Operators: Arithmetic, Relational & Logical operators. I/O in VB: Various controls for I/O in VB, Message box, Input Box, Print statement.

UNIT – III

Programming with VB: Decisions and conditions: If statement, If-then-else, Select-case. Looping statements: Do-loops, For-next, While-wend, Exit statement. Nested control structures. Arrays: Declaring and using arrays, one-dimensional and multi-dimensional arrays, Static & dynamic arrays, Arrays of array. Collections: Adding, Removing, Counting, Returning items in a collection, Processing a collection.

UNIT – IV

Programming with VB: Procedures: General & event procedures, Subroutines, Functions, Calling procedures, Arguments- passing mechanisms, Optional arguments, Named arguments, Functions returning custom data types, Functions returning arrays.
Working with forms: Adding multiple forms in VB, Hiding & showing forms, Load & unload statements, Activate & deactivate events, Form-load event, menu designing in VB
Simple programs in VB.

TEXT BOOKS:

1. Steven Holzner, "Visual Basic 6 Programming: Black Book", Dreamtech Press.
2. Evangelos Petroutsos. "Mastering Visual Baisc 6", BPB Publications.
3. Julia Case Bradley & Anita C. Millspaugh, "Programming in Visual Basic 6.0", Tata McGraw-Hill Edition

REFERENCE BOOKS:

1. Michael Halvorson, "Step by Step Microsoft Visual Basic 6.0 Professional", PHI
2. "Visual basic 6 Complete", BPB Publications.
3. Scott Warner, "Teach Yourself Visual basic 6", Tata McGraw-Hill Edition
4. Brian Siler and Jeff Spotts, "Using Visual Basic 6", Special Edition, PHI.

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BCA – 365 MULTIMEDIA TECHNOLOGY

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

Introduction to Multimedia: Components of Multimedia; Hypermedia and Multimedia; Overview of Multimedia Software Tools; Multimedia Hardware and Software; Basic Software Tools; Making Instant Multimedia; Presentation Tools; Multimedia Authoring; Types of Authoring Tools; Card- and Page-Based Authoring Tools; Icon-Based Authoring Tools; Time-Based Authoring Tools; Object-Oriented Authoring Tools; VRML;

UNIT – II

Graphics and Image Data Representation: Graphics/Image Data Types, Popular File Formats; Color Models in Images and Video; Types of Video Signals; Analog and Digital Video: Broadcast Video Standards: NTSC, PAL, SECAM, HDTV; Chroma Subsampling; CCIR Standards for Digital Video;

UNIT – III

Digital Audio: Digitization of Sound; MIDI Versus Digital Audio; Quantization and Transmission of Audio: Coding of Audio; Pulse Code Modulation; Differential Coding of Audio; Lossless Predictive Coding; DPCM; DM; ADPCM;

UNIT – IV

Multimedia Data Compression: Run-Length Coding; Variable-Length Coding; Dictionary-Based Coding; Transform Coding; Image Compression Standards – JPEG standard; Video Compression Techniques: H.261, H.263, MPEG;

TEXT BOOKS:

1. Ze-Nian Li, Mark S. Drew, "Fundamentals of Multimedia", Pearson Education.
2. Tay Vaughan, "Multimedia Making It Work", Tata McGraw- Hill.

REFERENCE BOOKS:

1. Ramesh Bangia, "Multimedia and Web Technology", Firewall Media.
2. John F. Koegel Buford, " Multimedia Systems", Addison Wesley, Pearson Education.
3. Ana Weston Solomon, "Introduction to Multimedia", Tata McGraw-Hill.

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BCA – 366 INTRODUCTION TO .NET

Maximum Marks: 100 **External: 90**
Minimum Pass Marks: 35 **Internal: 10**
Time: 3 hours

Note: Examiner will be required to set Nine Questions in all. First Question will be compulsory, consisting of objective type/short-answer type questions covering the entire syllabus. In addition to that eight more questions will be set, two questions from each Unit. A candidate will be required to answer five questions in all, selecting one question from each unit in addition to compulsory Question No. 1. All questions will carry equal marks.

UNIT – I

The Framework of .Net: Building blocks of .Net Platform (the CLR, CTS and CLS), Features of .Net, Deploying the .Net Runtime, Architecture of .Net platform, Introduction to namespaces & type distinction. Types & Object in .Net, the evolution of Web development.

UNIT – II

Class Libraries in .Net, Introduction to Assemblies & Manifest in .Net, Metadata & attributes.
Introduction to C#: Characteristics of C#, Data types: Value types, reference types, default value, constants, variables, scope of variables, boxing and unboxing.

UNIT – III

Operators and expressions: Arithmetic, relational, logical, bitwise, special operators, evolution of expressions, operator precedence & associativity.
Control constructs in C#: Decision making, loops.
Classes & methods: Class, methods, constructors, destructors, overloading of operators & functions.

UNIT – IV

Inheritance & polymorphism: visibility control, overriding, abstract class & methods, sealed classes & methods, interfaces.
Advanced features of C#: Exception handling & error handling, automatic memory management, Input and output (Directories, Files, and streams).

TEXT BOOKS:

1. Introduction to C# using .NET By Robert J. Oberg, PHI, 2002.
2. Programming in C# By E. Balaguruswamy, Tata McGraw Hill

REFERENCES BOOKS:

1. The Complete Guide to C# Programming by V. P. Jain
2. C# : A Beginner's Guide, Herbert Schildt, Tata McGraw Hill
3. C# and .NET Platform by Andrew Troelsen, Apress, 1st edition, 2001

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