**Revised Scheme of Examinations for M.Sc. (Statistics) w.e.f. 2015-2016**

The duration of the course leading to the degree of Master of Science (M.Sc.) Statistics shall be of two academic years. The course will be run under semester system. The examination of Semester –I and Semester- II will ordinarily be held in the month of December and that of Semester-II and Semester-IV in the month of May on the dates to be notified by the controller of examinations.

There will be five papers in each semester, four theory and one practical. In Semester-I & II all the papers will be compulsory. In Semester –III and IV out of four theory papers, two papers will be compulsory and the other two will be optional ones. The optional papers will be offered from the list given in the scheme provided the staff is available to teach them.

**Every student will be required to go for training in reputed institute and after the completion of the training the student will submit the training report. The report will be evaluated by practical examiner.**

Each student will be required to give one test /seminar for each paper. and one class test for the purpose of internal assessment.

The details of the scheme of examination:

# Semester-I

Sr.No. Nomenclature of Paper Max. Marks.\* Time

Paper-1 Measure and Probability 80+20\* 3 hrs.

Paper-II Statistical Methods & Distribution Theory 80+20\* 3 hrs.

Paper-III Inference –I 80+20\* 3 hrs.

Paper-IV Applied Statistics 80+20\* 3 hrs.

Paper-V Practical 80+20\* 3 hrs

(Calculator and SPSS based)

# Semester –II

Paper-1 Demography 80+20\* 3 hrs.

Paper-II Operations Research 80+20\* 3 hrs.

Paper-III Inference -II 80+20\* 3 hrs.

Paper-IV Computer Fundamentals and Problem 80+20\* 3 hrs.

Solving Using C

Perper-V Practical (Computer based) 80\*\*+20\* 4 hrs

# Semester-III

Paper-I Sampling Theory 80+20\* 3 hrs.

Paper-II Object-Oriented Programming with C++ 80+20\* 3 hrs.

Paper-III &IV 80+20\* 3 hrs.

Any two of the following options:

Option (i) Theory of Queues

Option(ii) Linear Programming

Option(iii) Stochastic Processes

Option(iv) Bio- Statistics

Option (v) Statistical Methods in Epidemiology

Option (vi) Statistical Ecology

Paper-V Practical (Computer based) 80\*\*+20\* 4 hrs

# Semester -IV

Paper-I Multivariate Analysis 80+20\* 3 hrs.

Paper-II Linear Estimation & 80+20\* 3 hrs.

Design of Experiments

Paper –III & IV 80+20\* 3 hrs.

Any two of the following options:

Option(i) Reliability and Renewal Theory

Option(ii) Non- Linear and Dynamic Programming

Option (iii) Information Theory

Option (iv) Game Theory

Option (v) Econometrics

Option (vi) Acturial Statistics

Paper-V Practical (Calculator & SPSS/SYSTAT based) 80\*\*+20\* 3 hrs

\*The division of Max. Marks for practical papers is as follows:

Practical : 60 marks

Class Record : 10 marks

Viva-Voce : 10 marks

The marks of internal assessment will be based on the following criteria:-

**For Theory Papers:**

1. One test/ Seminar for each paper : 50%
2. One Class Test : 25%

(One period duration)

1. Attendance \*\* : 25%

**For Practicals:**

(i) One Seminar/Test/ Viva/ Sessional : 50%

for each paper

(ii) One Class Test : 25%

(One period duration)

(iii) Attendance\*\* : 25%

**\*\* Marks for attendance will be given as under:**

**(1)** 91% onwards: 5 marks **(2)** 81% to 90%: 4 marks

**(3)** 75% to 80%: 3marks **(4)** 70% to 74%: 2 Marks

**(5)** 65% to 69%: 1 Mark

