ELEMENTS OF CIVIL ENGINEERING (NEW)
CE-101 E (w.e.f. 2015-16)

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3   1

Theory: 75 marks
Sessional : 25 marks
Total: 100 marks
Time: 3 Hrs.

Unit-1


Unit-II

Surveying-Classification –Chain Survey-Ranging-Compass Surveying, Types of levels - Fly-levelling, Bench mark & Contours.

Unit- III

Different types of Soils in India, Introduction to different types of Foundations, Bearing capacity, Elementary treatment for improvement of bearing capacity of Soil, Sieve analysis, Fineness modulus.
Roads – Classification of Rural & Urban roads, Road Marking- Traffic Signals

Unit-IV

Water supply and treatment: Water needs, estimation of water demand, impurities in water, water quality standards, water treatment systems, need for sanitation, systems of sanitation –water borne and conservancy methods of sanitation, sewerage systems-partial, combined and separate systems.

References Books:

2 Surveying & Levelling-Kanetkar and Kulkarni, PVG Prakashana, Pune.

Note: The Examiners will set eight questions, taking two from each unit. The students are required to attempt five questions in all selecting at least one from each unit. All questions will carry equal marks.