Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.ARCH. - SEMESTER–III EXAMINATION – WINTER 2015

Subject Code: 1035002 **Date:12/12/2015**

Subject Name: Building Construction-III

Time: 10:30am to 01:30pm **Total Marks: 40**

Instructions:

1. **Attempt any four questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Each question carry equal marks (10 marks)**

Q.1 (a) What is Steel? Give uses of steel. Differentiate between Hard & Mild Steel. **(05)**

(**b**) What is cement? What are grades available in cement? What do these grades indicate? **(05)**

Q.2 (a) Sketch in detail or draft a complete elevation of any one: **(05)**

1. King Post Timber Truss
2. Queen Post Timber Truss

(b) Explain Timber Floor and various types of timber floors with plan, sections and details. **(05)**

Q.3 (a) Schematic section of Toilet and basic drainage system for a G+1 building. **(05)**

(b) Enlist Types of Dome and Sketch any four**.** **(05)**

Q.4 (a) What is per capita demand for projecting required water supply? Give factors affecting per capita demand for water supply. Enlist any four companies manufacturing water supply pipes used in buildings? **(05)**

(b) Explain briefly: One Pipe and Two pipes System for Drainage. **(05)**

Q.5 Write a short note on the following. Attempt any Five. **(10)**

(a) Sanitary fixtures
(b) Types of trap
(c) Curing of Concrete
(d) Roof & enlist various types of it.
(e) Prefabrication
(f) Geodesic dome.

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