

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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