

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. ARCH - SEMESTER– III- EXAMINATION– WINTER- 2017

Subject Code: 1035002

Date:16-11-2017

Subject Name: Building Construction - III

Time:10:30 AM to 01:30 PM

Total Marks: 40

Instructions:

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1 (a) What is concrete? Enlist components of concrete and their significance. **04**
What do the various mixes of concrete indicate?
- (b) What is Steel? Give uses of steel. Differentiate between Hard & Mild Steel. **04**
- Q.2 (a) What is a roof? Enlist various types of roof. Sketch in detail any one type of roof from the following. **04**
1. Closed Couple roof
2. Lean-to roof
- (b) Sketch in detail or draft a complete elevation of any one: **04**
1. King Post Timber Truss
2. Queen Post Timber Truss
- Q.3 (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. **04**
- (b) Explain briefly: One Pipe and Two pipes System for Drainage. **04**
- Q.4 (a) Write a short note on the following topics. **02**
1. Septic tank and inspection chambers with relevant sketches **02**
2. Write a short note on: Plumbing Fixtures **02**
- (b) Sketch a schematic Layout of water Distribution System for a 3 storied Building **04**
- Q.5 Write a short note on the following. Attempt any four. **08**
1. Sanitary fixtures
2. Types of trap
3. Curing of Concrete
4. Defects in steel
5. Geodesic dome.
