

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.ARCH - SEMESTER- III • EXAMINATION – WINTER • 2014

Subject Code: 1035002

Date: 23-12-2014

Subject Name: Building construction - III

Time: 2:30 PM to 5:30 PM

Total Marks: 40

Instructions:

1. Attempt any five questions.
2. Make suitable sketches 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)** Explain Prefabrication and Space frame in detail with relevant sketches. **04**
- Q.2** Write a short note on the following topics. **08**
- (a) Wood and its various types.
 - (b) Enlist Type of Vault and Sketch any two.
 - (c) Geodesic Dome with relevant sketches.
 - (d) Application PVC in building construction.
- Q.3 (a)** Setting action and hardening of Cement. **04**
(b) Curing of Concrete **04**
- Q.4 (a)** Sketch in detail or draft a complete elevation of any one: **04**
1. King Post Timber Truss
 2. Queen Post Timber Truss
- (b)** Explain Timber Floor and its various types. **04**
Sketch the plan and section of Timber Floor with details.
- Q.5 (a)** Write a short note on the following topics.
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.6 (a)** What is Trap? Enlist and sketch types of traps. **04**
(b) Explain briefly: One Pipe and Two pipes System for Drainage. **04**
