

Seat No.: _____

Enrolment No. _____

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

Subject Code: 1035002

Date: 28-05-2014

Subject Name: Building construction-III

Time: 2:30 PM to 5:30 PM

Total Marks: 40

Instructions:

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

- Q.1 (a)** Write a short note on the following building materials: **04**
1. Cement
2. Cement concrete
- (b)** Explain briefly: **04**
1. Defects in steel
2. Market forms of steel
- Q.2 (a)** Write a short note on: Curing of concrete **04**
(b) Write a short note on: Setting and hardening of cement **04**
OR
- (b)** Sketch: King post truss **04**
- Q.3 (a)** Sketch: Queen post truss **04**
(b) Enlist types of roofs and sketch any two. **04**
OR
- Q.3 (a)** Write a short note on: Roofing **04**
(b) Write a short note on: Flooring **04**
- Q.4 (a)** 1. Enlist types of dome and sketch any two. **04**
2. Enlist types of vault and sketch any two.
(b) Explain briefly with a sketch: Hydrological cycle **04**
OR
- Q.4 (a)** What is a trap? Enlist and sketch types of traps. **04**
(b) Explain briefly: 'One pipe' and 'Two pipes' systems for drainage. **04**
- Q.5 (a)** Sketch a schematic layout of Water Distribution System for a 3 storied building. **04**
(b) Write a short note on: Sanitary fixtures **04**
OR
- Q.5 (a)** Write a short note on: Plumbing fixtures **04**
(b) Define the following: Run - off, Per capita demand of water, Min. and Max. Rainfall and Avg. Annual Rainfall. **04**
