

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Arch. – SEMESTER – IV • EXAMINATION – WINTER • 2014

Subject Code: 1055002

Date: 27-11-2014

Subject Name: Building Construction-V

Time: 10:30 am - 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) Write a short note on: 'Steel' as a structural material 04
(b) Write a short note on: 'Concrete' as a structural material 04
- Q.2 (a) Explain briefly with sketches: Types of Shallow Foundations 04
(b) Explain briefly with sketches: Types of Deep Foundations 04
- OR**
- (b) Explain briefly: 04
1. R.C.C Elements
2. Pre-cast Elements
- Q.3 (a) Explain briefly with sketches: Types of 'Slabs' 04
(b) Explain briefly with sketches: Types of 'Vaults' 04
- OR**
- Q.3 (a) Give general principles for design and construction of Steel Structures. 04
(b) Explain briefly with sketches: Types of Rolled Steel Sections. 04
- Q.4 (a) Explain briefly with sketches: 'RCC Retaining Walls'. 04
(b) Explain through sketches: 'Footings for Steel Columns'. 04
- OR**
- Q.4 (a) Explain the given connections through sketches: 04
1. Beam to Beam connections
2. Beam to Column connections
(b) Explain the given connections through sketches: 04
1. Column to Column connections
2. Column to Foundation connections
- Q.5 Explain briefly with sketches: 08
1. Lacing
2. Battening
- OR**
- Q.5 Write a short note on: 08
1. Importance of 'Bracing'
2. Cantilever Footing
