

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

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

Subject Code: 1045002

Date: 28-11-2014

Subject Name: Building Construction - IV

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)** Explain the purpose and importance of False Ceiling. Enlist the types of False ceiling with sketches and materials used for the same. **04**
- (b)** Write a short note on light weight partitions with sketches. **04**
- Q.2 (a)** Describe with sketches the various stages of R.C.C construction **04**
- (b)** Explain in detail with sketches the use of cavity walls.. **04**
- OR**
- (b)** Write a short note on hollow blocks. **04**
- Q.3 (a)** Write short notes on any 2. **04**
- 1) Shoring , 2) Strutting , 3) Formwork , 4) Scaffolding.
- (b)** Explain with sketches HVAC. **04**
- OR**
- Q.3 (a)** Write with examples the use of elevators and escalators. Also explain the basic working system with sketches. **04**
- (b)** Enlist and explain types of wiring. Describe with sketches the electrification of a small residence. **04**
- Q.4** Design a false ceiling layout for a conference room 10m x 7m. Draw the plan and sectional elevation for the same. **08**
- OR**
- Q.4** Design a light weight partition for small residence separating living room from a family-sitting room . total space provided for the two activities is 4M x 6M **08**
- Q.5** Design an attached toilet in (3M x 5M) for a master bedroom on first floor of a 3 BHK duplex residence . Assume required data for ventilation and light. **08**
- OR**
- Q.5** Design a kitchen with storage cabinets below platform and also some storage above the platform. Kitchen size is 3M X 5M. **08**
