

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. ARCH - SEMESTER- IV - EXAMINATION- WINTER- 2017

Subject Code: 1045002

Date:18-11-2017

Subject Name: Building Construction – IV

Time: 02:30 PM TO 05:30 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) Describe with sketches the various stages of R.C.C construction. 04

OR

Write with examples the use of elevators and escalators. Also explain the basic working system with sketches.

Q.2 (a) Write a short note on light weight partitions with sketches. 04

(b) Explain in detail with sketches the use of cavity walls. 04

Q.3 (a) Explain ‘Heating Ventilation, and Air Conditioning’ system? Explain in detail with Sketches. 04

(b) Explain the following topics with relevant sketches; (Any 4) 08

- 1. Scaffolding**
- 2. Shoring**
- 3. False ceiling**
- 4. Formwork**
- 5. Types of Kitchen Platform**

Q.4 (a) Explain Principles of Electric installation in small scale buildings. 04

(b) Enlist and explain types of wiring and describe in detail with sketches the electrification of a small scaled residential building. 04

Q.5 (a) Design a Toilet of 3x2mt area, which is attached to master bedroom of a residential bungalow. Two walls are external walls. Assume suitable entry and ventilation, drainage and water supply for the toilet. Sketch or draft plan, one relevant section, with suitable details of fixtures and fittings proportionately in relevant scale. 08

Or

(b) Design a kitchen of 3x4mt area. One side is open to garden and wash area, one side is attached with store, one side is attached to living room, and one side is open to dining area. Sketch or draft plan, one section through platform, with suitable details of working triangle proportionately in relevant scale. 08
