Subject Code: 1045002

Enrolment No.

Date:12/12/2015

## GUJARAT TECHNOLOGICAL UNIVERSITY B.ARCH. - SEMESTER-IV EXAMINATION - WINTER 2015

**Subject Name: Building Construction-IV** Time: 02:30pm to 05:30pm **Total Marks: 40 Instructions:** 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks. 4. All question carry equal marks. (08 marks) (a) Enlist and explain types of wiring and describe in detail with sketches the **Q.1** (04)electrification of a small scaled residential building. Write with examples the use of Elevators And Escalators and explain their basic (04)working system with sketches. Explain the following topics with relevant sketches; (Any 2) Q.2(06)(1) Scaffolding (2) Shoring (3) Kitchen working triangle (4) Day Lighting design Concept **(b)** Make relevant sketches (Any one) (02)(1) Double skin partition wall (2) Double scaffolding (a) Enlist and explain with sketches- Stages of RCC construction. Q.3 (04)**(b)** Write a short note on different types of cavity wall with relevant sketches. (04)**Q.4** Write short note on following; (any 2) (04)(a) (1) Hollow blocks (2) HVAC (3) False ceiling OR (a) Explain difference between Air conditioners and Air coolers. (04)(b) Explain Partition wall and Paneling. Elaborate various materials used for light (04)weight partitions with sketches. Q.5 Design a Toilet with changing room (in size of 3m X 5m) attached to the Master (08)bedroom at first Floor of a residential Bungalow. Consider suitable entry and ventilation, drainage and water supply for the toilet. Sketch or draft a proportionate plan, section, suitable details of fixtures and fittings in relevant scale. OR Design a Kitchen with storage room (in size 3m X 5m) cabinets below platform (08)and also above platform. Assume ventilation, water supply and drainage connection etc; Draw plan, Section and details showing fittings, fixtures and services in suitable scale.

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