Subject Code: 1045002

GUJARAT TECHNOLOGICAL UNIVERSITY BARCH - SEMESTER- IV • EXAMINATION - WINTER 2016

Date: 17/11/2016

Subject Name: Building Construction-IV Total Marks: 40 Time: 02.30 pm - 5.30 pm**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) 0.1 (a) Design an Attached toilet with dressing area in (2.7M x 4.5M) for a master (08)bedroom on first floor of residence. Consider Suitable entry and ventilation, drainage and water supply for toilet. Sketch or Draft its plan, section, required details of fitting and fixtures in suitable Scale. OR Design a false ceiling layout for a conference room 9MT x 6 MT. (08)0.1 (a) Sketch or Draft its plan, section, required details in suitable Scale. 0.2 (a) Explain the following topics with relevant sketches; (04)(1) Kitchen working triangle (2) Day Lighting design Concept. **(b)** Write short note on Hollow Blocks. (04)OR 0.2 Explain in details with sketches the use of cavity walls. (04)**Q.3** (04)(a) Explain with sketches HVAC. Write a short note on any Two. (04)1) Shoring. 2) Strutting, 3) Form work, 4) Scaffolding (a) Enlist types of wiring. Describe with sketches the electrification of a small residence. **Q.4** (04)**Q.4** Explain difference between Air conditioners and Air coolers. (04)(a) Write with examples the use of elevators and escalators. Also explain the basic (04)working system with sketches. 1) Describe with sketches the various stages of R.C.C. construction. 0.5 (04)(a) 2) Write a short note on light weight partition with sketches. (04)Design a Kitchen with storage room (in size 3m X 5m) cabinets below platform and **Q.5** (08)also above platform. Assume ventilation, water supply and drainage connection etc; Draw plan, Section and details showing fittings, fixtures and services in suitable scale. ********

1