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

Subject Code: 1045002   **Date:12/12/2015**
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)**

Q.1 **(a)** Enlist and explain types of wiring and describe in detail with sketches the electrification of a small scaled residential building. **(04)**

    (b) Write with examples the use of Elevators And Escalators and explain their basic working system with sketches. **(04)**

Q.2 **(a)** Explain the following topics with relevant sketches; (Any 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

Q.3 **(a)** Enlist and explain with sketches- Stages of RCC construction. **(04)**
    (b) Write a short note on different types of cavity wall with relevant sketches. **(04)**

Q.4 **(a)** Write short note on following; (any 2) **(04)**
        (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 weight partitions with sketches. **(04)**

Q.5 **(a)** Design a Toilet with changing room (in size of 3m X 5m) attached to the Master 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. **(08)**

OR

    (a) Design a Kitchen with storage room (in size 3m X 5m) cabinets below platform 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. **(08)**

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