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06CV42

Fourth Semester B.E. Degree Examination, Dec 08 / Jan 09
Building Construction

Time: 3 hrs.

Max. Marks:100

- Note :** 1. *Answer FIVE full questions, selecting atleast TWO questions from each part.*
2. *Any missing data may be suitably assumed.*

PART - A

- 1 a. What are the different methods of soil investigation? Discuss any two methods. (10 Marks)
b. With the help of a neat sketch, explain the plate load test method of determining the bearing capacity of soil. (10 Marks)
- 2 a. Define bearing capacity and safe bearing capacity of soil. (04 Marks)
b. What are the objects of foundation? (06 Marks)
c. Sketch the following types of foundation and briefly discuss :
i) Grillage foundation ii) RCC. Raft foundation. (10 Marks)
- 3 a. Give the classification of stone masonry. (05 Marks)
b. With neat sketches show any four joints in stone masonry. (05 Marks)
c. Draw plan and elevation of 1(one) brick thick wall for English bond and Flemish bond. (10 Marks)
- 4 a. Define a Lintel. Draw typical sketches of the following with details.
i) L/S of RCC Lintel for a span of 1.5 meter ii) Segmental Arch. (10 Marks)
b. What do you mean by under pinning and shoring? (10 Marks)

PART - B

- 5 a. Name different types of floorings. (03 Marks)
b. Sketch neatly lean to roof and name the parts. (07 Marks)
c. Draw the sketch of king post wooden roof truss (half part) and name the parts. (10 Marks)
- 6 a. The inside dimensions of a staircase in a residential building are 2.0mt × 4.6mtr. The height of floor is 3.30 mt and the roof consists of R.C.C slab of 12cm thickness. Design a proper layout of an R.C.C. stair for this building. Provide suitable head room below landing. (Sketch layout plan only). (10 Marks)
b. Draw neat and proportionate sketches showing the elevation of i) Fully panelled door (double shutter) ii) Glazed window with ventilator (double shutter). (10 Marks)
- 7 a. What are the objects of plastering? Discuss the method of plastering in two coats.(10 Marks)
b. What are the ingredients of oil paint? Briefly discuss the procedure of painting new wood surface. (10 Marks)
- 8 Write short notes on:
a. Reinforced brick work
b. Damp proof construction
c. Form work details for R.C.C. columns
d. Slip forming. (20 Marks)
