

CBCS SCHEME

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17CT45

Fourth Semester B.E. Degree Examination, June/July 2019 Building Construction

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. With the help of a neat sketch, explain plate load test. (10 Marks)
- b. Explain spread footing and combined footing with neat sketch. (10 Marks)

OR

- 2 a. Explain various "boring"-methods of site exploration. (10 Marks)
- b. Explain strap footing and friction piles using neat sketch. (10 Marks)

Module-2

- 3 a. Explain 1/2 brick thick English bond with relevant sketches. (10 Marks)
- b. With the help of neat sketch, explain the elements of a segmental arch. (10 Marks)

OR

- 4 a. Briefly explain Random Rubble Masonry with neat sketches. (10 Marks)
- b. Draw the elevation and plan for 2 brick thick double Flemish bond. (10 Marks)

Module-3

- 5 a. Explain stone lintel and RC lintel with sketches. (10 Marks)
- b. With neat sketch explain King Post truss. (10 Marks)

OR

- 6 a. List the advantages and limitations of flat roof. (10 Marks)
- b. Plan a suitable stairs for a residential building having 3.6m floor to floor height. The stair hall measures 2.6m x 6m. (10 Marks)

Module-4

- 7 a. Briefly explain the procedure for 3 coat line plastering. (10 Marks)
- b. With neat sketch, explain single paneled door and glazed window. (10 Marks)

OR

- 8 a. With neat sketch explain the method of granolithic floor construction. (10 Marks)
- b. Explain collapsible doors and louvered window with neat sketch. (10 Marks)

Module-5

- 9 a. Explain the procedure for painting on new wood work. (10 Marks)
- b. Write a note on: i) Raking shores ii) Underpinning by pit method. (10 Marks)

OR

- 10 a. List the characteristics of an ideal paint. (10 Marks)
- b. Write a note on: i) Shuttering for RC column ii) Dead shores. (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg. 42+8 = 50, will be treated as malpractice.