

CBCS SCHEME

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15CT45

Fourth Semester B.E. Degree Examination, Dec.2018/Jan.2019

Building Construction

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. What do you understand by bearing capacity of soil? Define : Ultimate bearing capacity and safe bearing capacity of soil. (04 Marks)
b. What help of neat sketch, explain [i] Mat foundation [ii] Pile foundation. (06 Marks)
c. What is subsoil exploration? Explain any one method. (06 Marks)

OR

- 2 a. Discuss various functions served by foundation. (04 Marks)
b. Explain with neat sketch plate load test by method of dropping weight. (08 Marks)
c. With neat sketch define shallow and deep foundation. (04 Marks)

Module-2

- 3 a. Explain with neat sketch [i] Stretcher [ii] Types of closure [iii] Header [iv] Quoin. (08 Marks)
b. Briefly explain classification of stone masonry with neat sketch. [Any four] (08 Marks)

OR

- 4 a. Explain with neat sketch: [i] English Bond [ii] Flemish Bond. (08 Marks)
b. Define shoring with its objectives. Explain dead shores with neat sketch. (08 Marks)

Module-3

- 5 a. Define lintel. Explain with neat sketch RCC lintel. (08 Marks)
b. Explain with neat sketch the following components of pitched roof [i] Purlin [ii] Principle rafter [iii] Battens [iv] Cable. (08 Marks)

OR

- 6 a. Define roof. What are requirement of good roof? (06 Marks)
b. Plan a dog legged staircase between two floors of 3.3mts height with roof thickness 12cms. The size of staircase room is 2mt × 4.6mts. Draw plan of stair. (10 Marks)

Module-4

- 7 a. Enumerate the defects found in plastering work. (08 Marks)
b. Write short notes on: [i] Mosaic flooring [ii] Industrial flooring. (08 Marks)

OR

- 8 a. Discuss the following with neat sketch : [i] Partly panelled and glazed door [ii] Venetian doors. (08 Marks)
b. List various factors to be considered while selecting size, shape, location and number of windows in a room. (08 Marks)

Module-5

- 9 a. List characteristic of an Ideal paint. What are the constituents of paint? (08 Marks)
b. List the requirement of good form work. (08 Marks)

OR

- 10 Write short notes on :
a. Painting on new wood work
b. Form work for columns
c. Underpinning
d. Pre fabrication techniques. (16 Marks)

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