

CBCS SCHEME

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18CV34

Third Semester B.E. Degree Examination, Aug./Sept.2020
Building Materials and Construction

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Write the requirements of good building stones. Explain the factors causing deterioration of stone work and preservation of stone work. (10 Marks)
 b. Explain briefly the tests conducted on bricks. (10 Marks)

OR

- 2 a. Explain the importance of size, shape and texture of coarse aggregates. (10 Marks)
 b. Explain bulking with reference to fine aggregates with its importance and how the test for bulking is done. (10 Marks)

Module-2

- 3 a. Explain briefly the essential requirement of good foundation. (10 Marks)
 b. Explain with sketches the following types of foundation :
 (i) Combined footing (10 Marks)
 (ii) Strap beam footing. (10 Marks)

OR

- 4 a. Explain with sketches the features of English bond and Flemish bond in brick masonry, with their merits and demerits. (10 Marks)
 b. Explain briefly following types of walls:
 (i) Load bearing wall
 (ii) Partition wall
 (iii) Cavity wall. (10 Marks)

Module-3

- 5 a. Explain various modes failures of an arch. (10 Marks)
 b. Define Lintel. Draw a neat sketch of an R.C.C. lintel with chejja indicating the positions of reinforcements. (10 Marks)

OR

- 6 a. Explain the factors which contribute in selection of flooring materials. (10 Marks)
 b. Draw a neat sketch of a kind post truss indicating various elements. (10 Marks)

Module-4

- 7 a. Explain briefly the guidelines to be followed while locating doors and windows. (10 Marks)
 b. Explain with neat sketches the following :
 (i) Corner window
 (ii) Bay window (10 Marks)

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.

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