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15CV36

Third Semester B.E. Degree Examination, Dec.2017/Jan.2018 Building Materials and Construction

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Write the requirements of good building stones. (04 Marks)
- b. Briefly explain the causes of deterioration of stone work. (06 Marks)
- c. Briefly explain classification of bricks with respect to properties. (06 Marks)

OR

- 2 a. Write a note on classification of Mortar. (04 Marks)
- b. Briefly explain the importance of size, shape and texture on coarse aggregates. (06 Marks)
- c. Explain Flakiness Index and Elongation Index test on coarse aggregates. (06 Marks)

Module-2

- 3 a. Write the functions and requirements of good foundation. (05 Marks)
- b. Explain with the help of sketches : i) Combined footing ii) Strap footing. (06 Marks)
- c. Explain with sketch, any one type of Pile foundation. (05 Marks)

OR

- 4 a. With the help of sketches, write the features of English bond and Flemish bond. (06 Marks)
- b. Briefly explain classification of stone masonry. (06 Marks)
- c. Define a Cavity wall. Write the advantages of cavity wall. (04 Marks)

Module-3

- 5 a. Briefly explain classification of Lintels. (06 Marks)
- b. With sketches, explain classification of Arches based on number of centers. (06 Marks)
- c. What are the factors that affect the choice of a flooring materials? (04 Marks)

OR

- 6 a. Explain the procedure of laying Terrazo flooring. (04 Marks)
- b. Write the requirements of good roof. (04 Marks)
- c. With the help of neat sketch, explain King Post Truss. (08 Marks)

Module-4

- 7 a. With the help of neat sketch, explain : (08 Marks)
i) Paneled Door ii) Collapsible Door.
- b. With the help of neat sketches, explain : (08 Marks)
i) Panelled and Glazed window ii) Bay window.

OR

- 8 a. With the help of neat sketches, explain types of stairs. (08 Marks)
- b. Write short notes on : (08 Marks)
i) Shoring ii) Underpinning.

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.

Module-5

- 9 a. Write the purposes of Plastering. (05 Marks)
b. Explain various types of Plaster finishes. (06 Marks)
c. Explain Stucco plastering. (05 Marks)

OR

- 10 a. Explain the constituents of Paint. (06 Marks)
b. Explain the procedure of pointing to plastered surface. (05 Marks)
c. Explain different methods of damp proofing. (05 Marks)
