

# CBCS Scheme

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

OR

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

**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)

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