

CBCS Scheme

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15CT33

Third Semester B.E. Degree Examination, June/July 2018 Materials of Construction

Time: 3 hrs.

Max. Marks: 80

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

Module-1

- 1 a. Enumerate causes of decay of timber. Mention different preservative commonly used for preservation. (08 Marks)
b. Briefly explain the classification of bricks with respect to properties. (08 Marks)

OR

- 2 a. Discuss the geological classification of rocks. Mention the uses of granite and marble. (08 Marks)
b. Explain the following :
i) Stabilized mud block
ii) Clay flooring. (08 Marks)

Module-2

- 3 a. Describe the method of manufacturing of cement by dry process. (08 Marks)
b. Determine mortar? Enumerate important requirements of good mortar. (08 Marks)

OR

- 4 a. With neat sketch, explain the process of manufacturing of fat line. (08 Marks)
b. Write a brief note on : i) light weight concrete ii) pozzolonic materials. (08 Marks)

Module-3

- 5 a. Enumerate important properties of : i) Cast iron ii) Wrought iron. (08 Marks)
b. Briefly explain : i) Surkhi mortar ii) Synthetic rubber. (08 Marks)

OR

- 6 a. Write a note on the following :
i) Vulcanization of rubber
ii) Properties and uses of steel. (08 Marks)
b. Define Tar, Bitumen and Asphalt. Mention the uses of same. (08 Marks)

Module-4

- 7 a. Enumerate properties and uses of sound insulation materials. (08 Marks)
b. List types of paints. Explain any two types of paints in brief. (08 Marks)

OR

- 8 a. Discuss briefly the different methods adopted to prevent corrosion of ferrous materials. (08 Marks)
b. Discuss the properties and uses of Thermal Insulation materials. (08 Marks)

Module-5

- 9 a. Briefly explain the properties of plastics. (08 Marks)
b. Mention the properties and uses of refractories. (08 Marks)

OR

- 10 Write short note on :
a. Moulding compounds
b. Carbon bricks
c. Uses of plastics in buildings
d. Plastic composite panels. (16 Marks)

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