

CBCS SCHEME

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15CT33

Third Semester B.E. Degree Examination, Dec.2018/Jan.2019 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. Discuss the geological classification of rocks. (08 Marks)
b. Explain "Bull trench kiln" method with a neat sketch. (08 Marks)

OR

- 2 a. Describe the methods of quarrying with hand tools. (08 Marks)
b. What are different types of tiles and discuss the test performed to check the quality of tiles? (08 Marks)

Module-2

- 3 a. What is meant by natural hydraulic lime? How is it manufactured? (08 Marks)
b. Draw the flow diagram for mixing of raw materials by dry process and wet process for the manufacture of ordinary cement. (08 Marks)

OR

- 4 a. What is Lime? Describe briefly how lime is manufactured. (06 Marks)
b. Briefly describe the practical tests of Lime stones. (06 Marks)
c. What are the properties of Lime? (04 Marks)

Module-3

- 5 a. What is the difference between ferrous and non ferrous metals? Give two examples each. (08 Marks)
b. Explain the process of obtaining the natural rubber. (08 Marks)

OR

- 6 a. Enumerate the various market forms of steel. (06 Marks)
b. Write the properties and uses of cast iron. (04 Marks)
c. Explain Beuimer process with the help of a diagram. (06 Marks)

Module-4

- 7 a. Write a note on heat insulating materials? (08 Marks)
b. Explain the properties of a good electrical insulator. (08 Marks)

OR

- 8 a. State briefly the properties of an ideal ferro-resisting material. (08 Marks)
b. Write short essay on the various materials used for thermal insulation of a building. (08 Marks)

Module-5

- 9 a. What are the processes involved in fabrication of plastic outlets? (08 Marks)
b. Write short notes on:
(i) Plastic composite panels (ii) Wool wood formed concrete (08 Marks)

OR

- 10 a. What is polymerization? Describe its three methods. (08 Marks)
b. List out the different types of glass used in construction industry. (08 Marks)

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