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B.E / B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, APRIL / MAY 2014

CIVIL ENGINEERING

II-Semester

CE 8201- CONSTRUCTION MATERIALS

(Regulation 2012)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. Write any two criteria for the selection of good building stones.
2. Based upon the IS codal provision how do you classify the bricks?
3. What is slaking of lime?
4. What is setting time of cement?
5. Grade of concrete-define.
6. What is HPC?
7. Distinguish between heart wood and sap wood.
8. What are distempers?
9. What are Sealants?
10. Write the advantages of FRP.

Part – B (5 x 16 = 80 marks)

11. Explain any four important tests to be conducted on coarse aggregates with neat sketches.
12. a) (i). Explain in detail about the characterization of good building stones. (12)
(ii). Write the different methods of preservation of stones. (4)

(OR)

- b) With neat sketches explain the manufacturing process of bricks.

13. a) Describe the properties of hardened concrete and also explain the different strength tests to be conducted on concrete.

(OR)

- b) (i). Write the step by step procedure of designing the concrete mix as per IS codal provision. (12)
(ii). What is RMC? Explain in detail. (4)

14. a) (i) List and explain the market forms of timber (8)
(ii). Discuss about aluminum and its alloys. (8)

(OR)

- b) (i). Explain the ingredients of paints. (8)
(ii). Discuss the different types of steel. (8)

15. a) Explain the following
(i). Types of glasses (8)
(ii). Refractories (8)

(OR)

- b) Write shorts notes on:
(i). Classification of composites and its advantages (10)
(ii). Geomembranes (6)