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Question Paper Code : X10235

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2020

Third/Fourth Semester

Civil Engineering

CE 8391 – CONSTRUCTION MATERIALS

(Common to Environmental Engineering)

(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. Recall the types of stone masonry.
2. Say the classes of bricks.
3. List the properties of cement.
4. Mention the uses of cement mortar.
5. Reproduce the methods of proportioning concrete.
6. Classify concrete mixers.
7. Write the composition of distempers.
8. Recall any four characteristics of timber.
9. What is a composite material ?
10. Write the properties of glass.

PART – B

(5×13=65 Marks)

11. a) List the different tests on stones. Explain any one test.

(OR)

- b) i) List the test on bricks. **(5)**
- ii) Write the properties of refractory bricks. **(8)**

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12. a) i) Say the types of Portland cement. (3)
ii) Describe the fineness test of cement. (10)

(OR)

b) Explain the following test procedure on coarse aggregate.

13. a) Explain about the compaction and finishing of concrete.

(OR)

b) Recall about transportation and placing of concrete.

14. a) i) List the common market forms of timber. (5)
ii) Recall the advantages of plywood. (8)

(OR)

b) i) Write the physical and chemical properties of Aluminum. (8)

ii) List the different types of paints. (5)

15. a) Classify glass and mention its uses.

(OR)

b) i) Recall the properties of fiber glass reinforced plastic.

ii) Explain about structural composites.

PART – C

(1×15=15 Marks)

16. a) i) List the common defects in timber. (5)
ii) Recall the usual forms of bitumen. (10)

(OR)

b) i) Describe the Efflorescence test in bricks. (8)

ii) Recall the soundness test of cement. (7)
