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Question paper code: 27101
B.E/ B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2015
Fourth semester
Civil engineering
CE 6401 – CONSTRUCTION MATERIALS
(common to environmental engineering)
(Regulation 2013)
Time : Three Hours
Maximum : 100 Marks
Answer ALL questions.

PART –A (10x2=20 Marks)

1. State any four characteristics of good building stones.
2. What do you mean by light weight concrete blocks?
3. Define the term setting time of cement.
4. List the tests for coarse aggregates.
5. What is meant by workability?
6. Define self-compacting concrete.
7. What is seasoning of timber?
8. What are the basic components of paint?
9. Define sealant.
10. What is fiber textiles?

PART –B (5x16=80 Marks)

11. (a) Briefly discuss the defects and preservation of stones. (16)
(Or)
(b) Describe the various tests on bricks (16)
12. (a) Describe the manufacturing process of cement. (16)
(Or)
(b) Explain briefly about
 - (i) Consistency test on cement(4)
 - (ii) Soundness of cement(4)
 - (iii) Crushing strength of aggregate(4)
 - (iv) Impact strength of aggregate (4)
13. (a) Explain the various tests to be performed on hardened concrete. (16)

(Or)

(b) Write in detail about

(i) Curing. (8)

(ii) High strength concrete. (8)

14. (a) (i) Enumerate the advantages of aluminium in construction. (8)

(ii) Explain the defects in timber. (8)

(Or)

(b) Write short notes on:

(i) Thermofoam (4)

(ii) Steel (4)

(iii) Distemper (4)

(iv) Varnish (4)

15. (a) Write short notes on :

(i) Glass (8)

(ii) Fiber glass reinforced plastic (8)

(Or)

(b) Explain in detail about refractories. (16)