



B.E./B.Tech.(Full Time) DEGREE END SEMESTER EXAMINATIONS, NOV / DEC 2011

CIVIL ENGINEERING BRANCH

SECOND SEMESTER

CE 181 –CONSTRUCTION MATERIALS

(REGULATIONS 2004)

Time : 3 hrs

Max Marks: 100

Answer ALL Questions

Part – A (10 x 2 = 20 Marks)

1. What is the purpose of providing frog in bricks?
2. What are the qualities of a good brick?
3. When are concrete hollow blocks used for construction?
4. List the precautions taken while using cement mortar.
5. Give the main constituents of Portland cement.
6. List the factors that affect workability of concrete.
7. Define bulking of sand.
8. Give the functions of paints.
9. What is the classification of carbon steels?
10. What are fibre textiles?

Part – B (5 x 16 = 80 Marks)

11. Explain in detail the deterioration and preservation of stones. (16)
12. a) (i) Give the classification of limes . Discuss in detail. (8)
(ii) Discuss the process of setting and hardening of cement. (8)

(OR)

b) Explain the different tests conducted on coarse aggregates for making of concrete

(16)

13. a) Describe in detail the making of concrete.

(16)

(OR)

b) Write short notes on (i) High Strength Concrete

(6)

(ii) High Performance Concrete

(5)

(iii) Ready Mix Concrete

(5)

14. a) (i) Explain in detail the defects in timber

(16)

(OR)

b) (i) What are the different types of varnish? Discuss in detail.

(8)

(ii) Enumerate the properties of distemper.

(8)

15. a) (i) Discuss the properties of fibre glass reinforced plastic and list out its applications

(12)

(ii) What are the different types of glazing used in ceramic tiles?

(4)

(OR)

b) Write short notes on (i) Refractories

(8)

(ii) Sealants

(8)