



B.E/B.Tech (Full Time) DEGREE END SEMESTER ARREAR EXAMINATION, APRIL/MAY 2012

CIVIL ENGINEERING BRANCH

FOURTH SEMESTER – (REGULATION 2004)

CE 282 CONSTRUCTION TECHNIQUES AND PRACTICES

Time : 3 hours

Max Marks : 100

Answer ALL Questions

Part - A (10 X 2 = 20 Marks)

- 1) What are the different types of slump observed during a slump cone test?
- 2) State the functions of a superplasticizer in fresh concrete.
- 3) What is a quoin?
- 4) Give the function of a foundation in a structure.
- 5) List out the factors that affect the values of Rebound Number.
- 6) What are the chemicals used to termite proof a building?
- 7) What are the components of paint?
- 8) Give the sketch of a couple roof.
- 9) List any four symptoms of distress in masonry structures?
- 10) Give the factors that affect the selection of equipment for handling building materials.

Part - B (5 X 16 = 80 Marks)

11. Explain the common types of repair done to damaged concrete structures. (16)
12. (a) Describe in detail the different methods of testing hardened concrete. (16)

(OR)

- (b)(i) Enumerate the steps in preparing a design mix using ACI method. (12)
- (ii) Give the significance of curing of concrete. (4)

13. (a) What are cavity walls? Describe their construction with sketches. (16)

(OR)

(b) Describe in detail with sketches the commonly used types of scaffolding in the construction industry. (16)

14. (a)(i) Give the classification of materials on the basis of acoustical properties. (6)

(ii) What are different methods of fire protection in a building? (10)

(OR)

(b)(i) Explain the various damp proofing techniques used in buildings (12)

(ii) What are the steps taken to ventilate a building? (4)

15. (a) Write short notes on (i) Earthmoving equipment (8)

(ii) Concreting equipment (8)

(OR)

(b) Explain in detail the different types of (i) Dewatering equipment (8)

(ii) Pumping equipment (8)