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END SEMESTER EXAMINATIONS, APRIL 2011
IV SEMESTER (R-2004)
CE 282 CONSTRUCTION TECHNIQUES AND PRACTICES
Civil Engineering

(30)

Time : 3 Hours

Max.Marks : 100

PART-A (10 x 2 = 20 marks)

1. What are the disadvantages of High grade cements?
2. Name any four NDT for durability of concrete.
3. Differentiate segregation and bleeding.
4. What are the functions of foundations?
5. What are the loads acting on formwork?
6. Define Underpinning.
7. What are the ingredients of oil paints?
8. Name any two sound insulation materials.
9. Define Repair and rehabilitation.
10. List any four operations that can be performed by Bull dozers.

PART-B (5 x 16 = 80 marks)

11. What is meant by Non-Destructive testing of concrete? Explain any two Non-Destructive testing methods in detail.
- 12.a) How do you experimentally test the hardened concrete for its compressive strength and flexural strength? Explain with sketches.
(or)
- 12.b) Explain the process of making fresh concrete. Also explain the fresh concrete properties.
- 13.a) Compare stone masonry and brick masonry. Also explain briefly about Stretcher bond and English bond.
(or)
- 13.b) State the different types of foundations and its functions. Explain any one type with a neat sketch.
- 14.a) Explain in detail about the various techniques adopted for thermal insulation of buildings.
(or)
- 14.b) Discuss in detail about the causes and effects of dampness in buildings.
- 15.a) Explain in detail about the various defects and causes of concrete structures.
(or)
- 15.b) Discuss in detail about the dewatering and pumping equipments.