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END SEMESTER EXAMINATIONS, NOVEMBER/DECEMBER 2011
IV SEMESTER CIVIL ENGINEERING (R-2004)
CE282 CONSTRUCTION TECHNIQUES AND PRACTICES

Time: 3 Hours

Max. Marks: 100

Part-A (10X2=20 Marks)

1. Define Water-binder ratio
2. Compare slump value and Compaction factor.
3. Give reasons for segregation.
4. What are the functions of foundations?
5. List the different types of scaffoldings?
6. Define Shoring.
7. What are the ingredients of oil paints?
8. Write short notes on varnish.
9. Define the term defect.
10. List any four factors affecting the performance of Bull dozers.

Part-B (5X16=80 Marks)

11. Explain in detail the hydration process of cement. Also explain the role of various ingredients involved in the process.
- 12.a Name any eight special cements. Explain in detail about any two special cements with their chemical composition and applications.
(OR)
- 12.b Explain in detail about the IS test procedure for any two strength tests for hardened concrete.
- 13.a With simple sketches explain the different types of shores.
(OR)
- 13.b When do you go for pile foundations? Briefly explain about pile driving techniques.
- 14.a Compare English bond and Flemish bond. With simple sketches explain stretcher bond.
(OR)
- 14.b Discuss the possible causes of dampness in buildings. Explain the causes and effects of Efflorescence.
- 15.a Explain in detail about the Sound insulation of buildings.
(OR)
- 15.b Draw sketches of any eight construction equipments and briefly explain their functions.