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B.E./B.Tech (Full Time) DEGREE END SEMESTER EXAMINATIONS, Nov/Dec.2013

CIVIL ENGINEERING
Fourth Semester

CE 282/CE9252 CONSTRUCTION TECHNIQUES AND PRACTICES
(English and Tamil Medium)
(Regulations: 2004/2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART- A (10 x 2 = 20 Marks)

1. List the various types of high grade cements.
2. List the chemical admixture and mineral admixtures used in the concrete.
3. List the different types of foundations used in building construction.
4. What are cavity walls, where they are used?
5. List the factors causing fire accidents in buildings?
6. List the characteristics of ideal paints?
7. List the factors damaging the concrete and components of buildings?
8. List the factors damaging the brick masonry.
9. State the uses of vibrators in construction.
10. List the classification of pumps?

PART- B (5 x 16 = 80 Marks)

11. Design a concrete mix for the following data:

(16)

Grade	- M35
Cement	- OPC 43
Aggregate	- 20 mm
Minimum cement content	- 320 kg/cm ³
Maximum water/unit ratio	- 0.45
Workability	- 170 mm slump
Exposure condition	- Severe
Placing of concrete	- Pumping
Supervision	- Good
Chemical Admixtures	- Super Plasticizers

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12. a) List and explain the various types of bonds that are being used in the construction with neat sketches. (16)
- (Or)**
- b) List and explain the various types of flooring that are being used in the construction with neat sketches. (16)
13. a) Explain in detail about painting and white washing in buildings. (16)
- (Or)**
- b) Explain the operational requirements of ventilation and air conditioning in buildings. (16)
14. a) i) Discuss the aspect of sound insulation in buildings. (8)
- (Or)**
- ii) Derive the expression for intensity or loudness of soundness. (8)
- b) Clarify and explain in detail the various types of maintenance work in buildings. (16)
15. a) Explain in detail the various types of concrete equipments with neat sketches. (16)
- (Or)**
- b) List and explain the various types of material handling equipments in construction. (16)
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