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Question Paper Code : 21198

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Third/Sixth Semester

Civil Engineering

CE 2203/CE 36/CE 1204 A/080100011/10111 CE 601 — CONSTRUCTION
TECHNIQUES, EQUIPMENT AND PRACTICES

(Regulation 2008/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the methods of compacting concrete?
2. Mention any four Destructive methods of testing concrete.
3. Write short notes on construction joints.
4. What is meant by scaffolding?
5. What are the two types of anchoring system for the cable in case of suspension bridge?
6. Define shoring for deep excavation.
7. Write short notes on offshore platform.
8. What is the necessity of space decks?
9. List out the equipments used for dredging and trenching.
10. Write a sort note on material handling equipment.

PART B — (5 × 16 = 80 marks)

11. (a) Describe the dry process of cement manufacturing with neat diagram. (16)

Or

- (b) Briefly explain the various types of cement, grades and their characteristics. (16)
12. (a) Briefly explain with neat sketches about
- (i) Concrete hollow block masonry (6)
 - (ii) Domes (4)
 - (iii) Sequence of construction activities. (6)

Or

- (b) Briefly explain different types of stone masonry in building construction. (16)
13. (a) Discuss briefly different types of coffer dams with neat sketches. (16)

Or

- (b) Describe with neat sketch about the technique of pile driving. (16)
14. (a) Discuss the process of in-situ prestressing in high rise structures. (16)

Or

- (b) Describe the procedure involved in the erection of braced domes and space decks. (16)
15. (a) Explain the factors governing the selection of equipment for earthwork. (16)

Or

- (b) Mention various types of earthwork equipments and also give their uses. (16)