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B.E./B.Tech. DEGREE EXAMINATIONS,
NOVEMBER/DECEMBER 2010.

THIRD SEMESTER
CIVIL ENGINEERING

CE 36 — CONSTRUCTION TECHNIQUES, EQUIPMENT
AND PRACTICES
(REGULATIONS 2008)

Time : Three hours
Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What precautions you will take while storing cement? Why?
2. What is meant by water cement ratio? How does it affect the strength of concretes?
3. What are construction joints?
4. Define 'acoustics'.
5. What is meant by dewatering? when it is warranted?

6. Write short notes on sheetpiles.

7. What are offshore platforms?

8. What are launching girders?

9. Give the different types of drilling equipment.

10. Name the various functions of conveyors.

PART B — (5 × 16 = 80 marks)

11. (a) Explain in detail about the following :

(i) Compaction of concretes

(ii) Curing of concrete.

(8 + 8)

Or

(b) List out the various methods used for Non-destructive testing of concrete. Explain in detail any one method with its limitations.

12. (a) Name the different types of rubble masonry. What are the important points to be kept in view in the construction of rubble masonry?

Or

(b) Explain in detail about the following :

(i) Ship forms

(ii) Scaffoldings.

(8 + 8)

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13. (a) Explain with sketches, the following methods of tunnelling and discuss their relative merits and demerits (i) drift method (ii) full face method. (8 + 8)

Or

(b) List the different types of Caissons. Explain in detail any two of them.

14. (a) Explain with neat sketches, the techniques for heavy decks construction.

Or

(b) Explain in detail, about the insitu prestressing in high rise structure.

15. (a) List the different types of earthwork equipments. Explain in detail any two of them.

Or

(b) Explain in detail about the equipment for dredging.

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