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Question Paper Code : 57181

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2016

Fifth Semester

Civil Engineering

CE 6506 – CONSTRUCTION TECHNIQUES, EQUIPMENT AND PRACTICE

(Regulations 2013)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A (10 × 2 = 20 Marks)

1. What is the use of accelerators in concrete ?
2. Mention any four Destructive methods of testing concrete.
3. What is the purpose of providing Damp proof courses ?
4. Define Slip form.
5. What is meant by coffer dam ?
6. What is meant by pipe jacking ?
7. Write a note on offshore platform.
8. Define articulated structures.
9. Name the equipments used for earth moving operations.
10. What is meant by dredging ?

PART – B (5 × 16 = 80 Marks)

11. (a) What are the factors to be considered for mix design ? Explain the step by step procedure for IS method.

OR

- (b) Explain any two tests for testing of fresh concrete.

12. (a) Describe the different types of bonds in brick masonry with sketches.

OR

- (b) What is scaffolding ? Mention its various components and types.

13. (a) Describe the procedure involved in underwater construction of diaphragm walls and basement.

OR

- (b) What is dewatering ? And briefly explain the various dewatering techniques.

14. (a) Explain the general requirements in launching girders.

OR

- (b) Explain about the support structures required for heavy equipments and conveyors.

15. (a) Explain the various equipments for pile driving.

OR

- (b) Mention the various types of earthwork equipment. Mention their uses.