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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.