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**Question Paper Code : 40807**

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018  
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. State any two physical properties of cement.
2. List the methods for curing of concrete.
3. Write any three materials used for joints.
4. What is water proofing in construction ?
5. Why are caissons used ?
6. What is shoring in construction ?
7. What are the methods of prestressing ?
8. What is a conveyor belt ?
9. List out the equipments used for earth work.
10. Define dredging.

**PART – B (5×13=65 Marks)**

11. a) i) Discuss any two types of admixtures. (3)  
ii) List out types of cement. (5)  
iii) What are the tests to be conducted for concrete ? (5)
- (OR)

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- b) i) Explain the process of manufacturing process of concrete. (7)  
ii) Discuss the RMC concrete and its advantages. (3)  
iii) Describe the Non-Destructive Tests of Concrete. (3)
12. a) i) What are masonry structures ? Discuss the bonded wall ? (3)  
ii) What is the function of the roof ? (3)  
iii) Describe any two types of scaffolding with diagrams. (7)
- (OR)
- b) i) Write short notes on :  
1) Damp proof course and (3)  
2) Building foundations. (3)  
ii) What is the difference between scaffolding, shuttering and framework as per Civil Engineering ? (7)
13. a) i) Describe the term jacking. (6)  
ii) Explain the types of hammers using in pile driving. (7)
- (OR)
- b) i) Explain types of sheet pile and list its functions. (10)  
ii) What is well pointing and how does dewatering work ? (3)
14. a) i) Write short notes on Bow-string Bridge and cable-stayed bridges. (6)  
ii) What are the uses of offshore platform ? (4)  
iii) Write short notes on dome. (3)
- (OR)
- b) i) Write short notes on launching girders and bridge decks. (3)  
ii) Explain in detail about the pre stressed concrete used in the structure. (10)
15. a) i) Explain in detail about the earth moving equipments. (10)  
ii) List out the equipments used for concreting work. (3)
- (OR)



- b) i) Enumerate the material handling equipment. (4)
- ii) Discuss the advantages of elevating scraper. (4)
- iii) Distinguish between crawler and pneumatic type of wheels excavators. (5)

PART - C

(1×15=15 Marks)

16. a) i) What do you mean by dredging? List out the types of equipment used for dredging. (5)
- ii) Explain in details about trenching and the equipment used for trenching. (10)
- (OR)
- b) i) Discuss the tunnel. (3)
- ii) Describe the fire protection. (6)
- iii) Write short notes on slip form construction. (6)