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**Question Paper Code : 50289**

**B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017**  
**Fifth Semester**  
**Civil Engineering**  
**CE 6506 – CONSTRUCTION TECHNIQUES, EQUIPMENT AND PRACTICE**  
**(Regulations 2013)**

**Time : Three Hours**

**Maximum : 100 Marks**

**PART – A**

**(10×2=20 Marks)**

1. List out the various Non-destructive testing methods.
2. In which varies grade of cement is classified and write the grades of cement ?
3. Define Scaffolding.
4. Draw a neat sketch for cornice and coping.
5. List out the various methods tunnelling in soft soil.
6. Write any two functions of sheet piles.
7. What do you mean by bridge write their types ?
8. Write the various operations involved in the construction of off shore platforms.
9. What are the factors to be considered for selecting the equipment ?
10. List out the various types of vibrators used in compaction process.

**PART – B**

**(5×13=65 Marks)**

11. a) Briefly discuss about the manufacturing process of concrete.

(OR)

- b) Discuss in detail about the testing on fresh concrete with neat sketch.

49 50289



12. a) Write the sequence of construction activates in detail.

(OR)

b) Define masonry and explain about the various types of stone masonry with neat sketch.

13. a) Explain in details about the various methods of dewatering process with neat sketch.

(OR)

b) Define piles and explain about various types of pile driving technique.

14. a) Discuss in detail about the various types of Bridge decks with suitable diagram.

(OR)

b) Explain about various types of domes with neat sketch.

15. a) Discuss in details about various types of earth work equipment.

(OR)

b) Briefly explain about types of Dredger mention below with neat sketch.

1) Dipper Dredger (4)

2) Bucket Dredger (4)

3) Wheel Dredger (5)

PART - C

(1×15=15 Marks)

16. a) What is coffer dam ? With the help of sketches explain various types of coffer dam.

(OR)

b) In which situation pile foundation is adopted ? Explain various types of pile foundation with neat sketch.