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**Question Paper Code : X 60245**

B.E./B.Tech. DEGREE EXAMINATIONS, NOV./DEC. 2020

Third/Sixth Semester

Civil Engineering

CE 2203/CE 1204 A/10111 CE 601/CE 36/080100011 – CONSTRUCTION

TECHNIQUES, EQUIPMENT AND PRACTICES

(Regulations 2008/2010)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions.

PART – A

**(10×2=20 Marks)**

1. Name some admixtures used in concrete.
2. List any two non destructive tests used for testing the quality of concrete.
3. Why expansion joints and construction joints are necessary for any building construction ?
4. What are the functions of foundations ?
5. State the uses of Box jacking.
6. What are sheet piles ?
7. Write short notes on offshore platform.
8. What is the necessity of space decks ?
9. List out the different types of earthwork equipment.
10. When are the scrapers used ?

PART – B

**(5×16=80 Marks)**

11. a) Describe the dry process of cement manufacturing with neat diagram. **(16)**

(OR)

- b) Briefly explain the various types of cement, grades and their characteristics. **(16)**

12. a) What are the different roofs finishes ? Explain with neat sketches. **(16)**  
(OR)  
b) Briefly explain different types of stone masonry in building construction. **(16)**
13. a) What are the available pile drilling techniques and explain in detail about any two methods of pile drilling technique ? **(16)**  
(OR)  
b) What is meant by well foundation and Caisson foundation and explain in detail about the construction of well foundation and Caisson foundation. **(16)**
14. a) Discuss in detail the construction techniques and equipments used for constructing heavy decks. **(16)**  
(OR)  
b) Describe the construction procedure and equipments used for erecting light weight structural components on tall structures. **(16)**
15. a) Describe in detail the various equipments used for compaction, batching and mixing of concrete. **(16)**  
(OR)  
b) Write a detailed note on the following types of equipments :  
i) Earth movers and equipments used for erection of structures. **(10)**  
ii) Equipments for pile driving. **(6)**
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