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**Question Paper Code : 51246**

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

**Third Semester**

**Civil Engineering**

**CE 2203/CE 36/CE 1204 A/080100011/10111 CE 601 – CONSTRUCTION  
TECHNIQUES, EQUIPMENT AND PRACTICES**

**(Regulations 2008/2010)**

**Time : Three Hours**

**Maximum : 100 Marks**

**Answer ALL questions.**

**PART – A (10 × 2 = 20 Marks)**

1. List the various methods of concrete mix design.
2. Name some methods of Non-destructive testing of concrete.
3. Enumerate the advantages of concrete hollow block masonry.
4. What are the advantages of slip forms ?
5. What are the two types of anchoring system for the cable in case of suspension bridge ?
6. Define shoring for deep excavation.
7. What is called an articulated structure ?
8. Write a short note on braced domes.
9. Name any four earthwork equipments.
10. What is meant by dredging and trenching ?

**PART – B (5 × 16 = 80 Marks)**

11. (a) Explain the various steps involved in manufacturing of concrete. (16)

**OR**

(b) Explain any two tests for testing of fresh concrete. (16)

12. (a) Explain with neat sketches any four types of Bonds in brick masonry. (16)

**OR**

(b) Write detailed notes on : (2 × 8 = 16)

(i) Types of scaffoldings

(ii) Acoustics and fire protection

13. (a) Brief about different types of piling techniques applied in the sub surface construction. (16)

**OR**

(b) Describe with neat sketch about the underground open excavation. (16)

14. (a) Discuss the process of in-situ prestressing in high rise structures. (16)

**OR**

(b) Describe the procedure involved in the erection of braced domes and space decks. (16)

15. (a) Explain in detail about any four types of Earthwork equipments with a neat sketch. (16)

**OR**

(b) What are the types of material handling equipments and explain with a neat sketch about any four material handling equipments? (16)