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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)