

ANNA UNIVERSITY OF TECHNOLOGY, COIMBATORE
B.E. / B.TECH. DEGREE EXAMINATIONS : NOV / DEC 2011

REGULATIONS : 2008

THIRD SEMESTER : CIVIL ENGG.

080100011 - CONSTRUCTION TECHNIQUES - EQUIPMENT AND PRACTICES

Time : 3 Hours

Max.Marks : 100

PART - A

(10 x 2 = 20 MARKS)

ANSWER ALL QUESTIONS

1. List any four concrete chemicals with its applications.
2. Define Compaction factor.
3. What are the various types of masonry?
4. What do you understand by slipforms?
5. Differentiate box jacking and pipe jacking.
6. List the applications of sheet piles.
7. What are the methods employed for launching heavy decks?
8. Classify the cranes used for erecting light weight components on tall structures.
9. Differentiate crawler type and wheeled type tractors.
10. Write the applications of front end loaders.

PART - B

(5 x 16 = 80 MARKS)

ANSWER ALL QUESTIONS

11. a) Describe the procedure to be followed for the mix design as per ACI method.
(OR)
11. b) With a neat sketch explain any of the non-destructive testing of concrete.

12. a) Explain the various methods of damp proofing.
(OR)

12. b) What is shuttering? Explain its types.

13. a) Explain the procedure to be followed in the technique of pipe jacking.
(OR)

13. b) Describe any one of the method of dewatering for underground open excavation.

14. a) Describe about the special forms used in shell constructions.
(OR)

14. b) Explain various types of material handling equipments.

15. a) With a neat sketch explain the components of a scraper.
(OR)

15. b) Discuss in detail the various types of hammers used in pile driving.

*****THE END*****