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Question Paper Code : 80214

B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2016.

Fifth Semester

Civil Engineering

CE 6506 — CONSTRUCTION TECHNIQUES, EQUIPMENT AND PRACTICE

(Regulations 2013)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the grades of concrete?
2. Mention any four destructive methods of testing concrete.
3. Define damp proof course. What are its causes of dampness?
4. What is the purpose of providing construction joints?
5. What is an under-reamed pile?
6. What is a shoring?
7. What are shells?
8. What are launching girders?
9. What are the factors influencing compaction?
10. What are the types of dredgers?

PART B — (5 × 16 = 80 marks)

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

Or

- (b) What are concrete chemicals? Explain in detail and discuss their uses.

12. (a) Describe the different types of bonds in brick masonry with sketches.

Or

(b) Explain the different types of joints in buildings with sketches.

13. (a) Explain the various types of sheet piles.

Or

(b) Explain in detail about tunneling techniques.

14. (a) Describe in detail about shell roof structures.

Or

(b) Explain about the support structures required for heavy equipments and conveyors.

15. (a) Explain the various equipments for pile driving.

Or

(b) Mention the various types of compaction equipment. Mention their uses.