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Question Paper Code : 71580

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2017.

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 does 33 grade cement refer to?
2. List any two durability properties of hardened concrete.
3. Why are construction joints provided?
4. What are slip forms?
5. What is meant by micro piling?
6. Define shoring.
7. Draw a sketch of formwork for shells.
8. What are the advantages of articulated towers?
9. How do you calculate the output of scraper?
10. List any two reasons for dredging.

PART B — (5 × 16 = 80 marks)

11. (a) What is the objective of curing? Explain the different methods of curing of concrete.

Or

- (b) What is meant by Non-Destructive testing of concrete? What are its relative merits? Explain any one Non-Destructive testing method in detail.

12. (a) Compare brick masonry and stone masonry.

Or

(b) Explain in detail about

(i) Fire protection

(ii) Acoustic protection.

13. (a) Explain in detail about the under water construction methods.

Or

(b) Define tunneling. Explain in detail about the different tunneling methods.

14. (a) Explain the construction techniques for bridge decks.

Or

(b) With a flow diagram explain the erection of articulated towers.

15. (a) How do you select equipment for earth work? Explain the types of earthwork equipments.

Or

(b) With sketch explain a typical batching plant.