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Question Paper Code : 50336

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023

Fourth Semester

Civil Engineering

CE 8401 – CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. State the types of forces in a structural system.
2. Describe the advantages and disadvantages of framed structure.
3. Name the types of flooring commonly used.
4. Explain the types of scaffolding.
5. What is diaphragm wall?
6. Define Mucking.
7. State the techniques for erecting heavy decks.
8. Indicate how are domes erected?
9. Define dredging.
10. Describe the various types of conveyors?

PART B — (5 × 13 = 65 marks)

11. (a) Classify the drivers for seeking responsible sourcing.

Or

- (b) State the aspects and benefits of green buildings.

12. (a) Compare stone, brick and concrete hollow block masonry.

Or

- (b) Explain fire protection methods and procedures.

13. (a) Describe the various methods of underwater concreting operations system.

Or

- (b) Explain in detail about sinking of cofferdam and diaphragm walls.

14. (a) Explain in detail the construction procedure of a bow string girder bridge.

Or

- (b) Describe in detail about the erection of light weight components on tall structures.

15. (a) Briefly explain the equipment used for material handling.

Or

- (b) Outline on pile hammers? Name the principle types of hammers.

PART C — (1 × 15 = 15 marks)

16. (a) Detail the method of scaffolding provided to plaster the outer walls at the first floor Level.

Or

- (b) Elaborate on the various methods employed to bring a tilted well to position while constructing a well foundations.