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Question Paper Code : 80078

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.

Fourth Semester

Civil Engineering

CE 8401 — CONSTRUCTION TECHNIQUES AND PRACTICES

(Regulation 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is meant by Passive Building?
 2. Differentiate Load Bearing and Framed Structures.
 3. Define Specification.
 4. List the importance of Damp proof courses.
 5. Mention the techniques used for under water construction.
 6. What is grouting.
 7. Explain the term launching girders.
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8. In which situations articulated structures can be adopted?
 9. Name the equipment used for volume batching in concrete production.
 10. Write the factors which influence the selection of Equipment.

PART B — (5 × 13 = 65 marks)

11. (a) List the features of High Rise Building Technology.

Or

- (b) Explain about Building Automation systems.

12. (a) List different Bonds in masonry. Explain in detail.

Or

(b) What is Scaffolding? List and explain the different type of Scaffoldings.

13. (a) Describe the procedure for Pipe Jacking.

Or

(b) Describe the Various methods adopted to construct a diaphragm wall.

14. (a) Explain in detail about bridge decks and off shore platforms.

Or

(b) What is a Sheet pile? List the factors for selection of Sheet Piles. Explain its types based on material.

15. (a) Explain the various aspects of graders and scrapers in detail.

Or

(b) What are the different types of crane? Explain any three in detail.

PART C — (1 × 15 = 15 marks)

16. (a) Explain different Tunneling techniques with respect to its suitability of implementation.

Or

(b) Elaborate the role of materials and methods to achieve Green building Concepts.