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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.
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.



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Question Paper Code : 90119

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

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. Differentiate Load bearing structure and framed structure.
2. List out the materials used for constructing an eco building.
3. Mention the advantage of using English bond over other type of bonds.
4. Define Scaffolding.
5. State the advantages of Box jacking.
6. Mention the purpose of grouting.
7. Highlight on Cable Stayed bridge.
8. Define Shell. Where shells are being used ?
9. What is a front end loader ?
10. What are the types of cranes?

PART – B

(5×13=65 Marks)

11. a) Distinguish natural buildings and intelligent buildings, in detail.

(OR)

- b) Explain the aspects of high rise building technology.

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12. a) Name the different types of bonds in brick masonry and explain with sketches.

(OR)

b) Mention the methods of providing DPC ? What are the requirements of an ideal material for Damp proofing ?

13. a) Explain tunneling and its techniques.

(OR)

b) Describe with neat sketch about the method of pile driving.

14. a) Explain the aspects of in situ prestressing for high rise structure.

(OR)

b) Explain General requirements for launching girders.

15. a) Illustrate the various factors involved in selection of equipment for earthwork.

(OR)

b) Analyze the equipment used for erection of structures in detail.

PART – C

(1×15=15 Marks)

16. a) Summarize the construction methodology of RCC cooling tower using slip form techniques.

(OR)

b) Explain the procedure of Prestressing in detail also explain the advantages and present usage of prestressed concrete structures.