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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.



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.