

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
SEVENTH SEMESTER B.TECH DEGREE(HONS.) EXAMINATION DEC 19
Course code:04CE6416

Course Name:Construction Methods and Equipments

Max. Marks : 60

Duration: 3 Hours

PART A

Answer All Questions

Each question carries 3 marks

1. What is a shaft? List 2 advantages of using a shaft.
2. What is shoring? List 2 applications of shoring.
3. What is plate laying in railway construction? List 2 methods for plate laying.
4. What is a dragline? List 2 situations where dragline should be used.
5. How does a centrifugal pump work?
6. List 3 flooring equipment and their applications.
7. What are feeders? List 2 types of feeders.
8. What are conveyors? List 2 types of conveyors

PART B

Each question carries 6 marks

9. What is a pile? List the different types of piles based on construction methods. Explain any one method in detail.

OR

10. Explain blasting, mucking and timbering
11. Explain 2 methods for basement water proofing

OR

12. What is a raking shore? Draw its schematic diagram?
13. Explain bridge construction using incremental launching method.

OR

14. What are the benefits and challenges of a river linking project?
15. List 6 parts of a tunnel boring machine. Explain each of them in 1 or 2 sentences

OR

16. List 6 parts of a backhoe loader. Explain each of them in 1 or 2 sentences
17. What is a grab dredger? How does it work? List 2 advantages and disadvantages.

OR

18. What is dewatering? Explain any 2 techniques for dewatering.
19. Draw schematic diagram of a concrete batching and mixing plant. Also mark its parts

OR

20. Draw schematic diagram of a jaw crusher and mark its parts

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