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Question Paper Code : 30501

M.E./M.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2022.

First Semester

Construction Engineering and Management

CN 4103- CONSTRUCTION EQUIPMENT AND MANAGEMENT

(Regulations 2021)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What are the points should be considered in mind while selecting equipment?
2. Why is maintenance management important for construction firms?
3. Name the types of earthwork equipment.
4. What are the different operations that can be performed by the motor grader?
5. Define trenching.
6. Enlist the methods of grouting operation.
7. Define grouting.
8. Why the usage of ready mix concrete is important nowadays?
9. List the various types of conveyers used for material handling.
10. What are the uses of industrial truck?

PART B — (5 × 13 = 65 marks)

11. (a) (i) Discuss in detail the planning procedure of equipments in construction projects. (6)
- (ii) Suggest the steps involved in cost control and cost reduction. (7)

Or

- (b) (i) Explain in detail various reasons for replacement of construction equipment. (6)
- (ii) What are the causes of accident in construction project? Also explain why safety is important on construction project site. (7)
12. (a) What is earth moving operation? Explain the components and operations of tractor with neat sketch.

Or

- (b) Discuss in detail the various parts, applications and output of bulldozer.
13. (a) What are the factors involved while driving pile hammer? Explain the pile driving equipment accessories.

Or

- (b) Explain the equipments required for demolition of a building.
14. (a) Write the general layout of crushing plant. Explain the construction and working operations of the components.

Or

- (b) Discuss the role of asphalt paver and asphalt compacting equipment in a road project.
15. (a) Discuss the components, functions and types of forklift.

Or

- (b) Explain the types of material handling crane with neat sketch.

PART C — (1 × 15 = 15 marks)

16. (a) Explain the different types of compactors.

Or

- (b) Discuss impact and gyratory crusher with neat sketch.