



B.Tech IV Year I Semester Regular Examinations, February 2021

CONSTRUCTION PROJECT PLANNING AND MANAGEMENT

(Civil Engineering)

Maximum Marks: 70

Date: 02.03.2021 Duration: 3 hours

- Note:**
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

(10x2M=20 Marks)

- 1 List the objectives of planning.
- 2 Explain about work breakdown structure.
- 3 Compare CPM & PERT.
- 4 Why is it necessary to optimize time and cost in a project?
- 5 What are the commonly used time planning techniques in construction project management?
- 6 What is resource constraint scheduling?
- 7 What are the elements of contract?
- 8 Define arbitration agreement.
- 9 List out the laws related to social security.
- 10 Define Workmen's compensation act- 1923.

Part-B

Answer All the following questions.

(10M X 5=50Marks)

- 11 a) Briefly describe the project life cycle. (5M)
b) Discuss the qualities of leadership. (5M)
- 12 a) Discuss the functions of human resource management with relevant examples. (5M)
b) What are the various modern methods of performance appraisal? (5M)
- 13 a) Explain activity duration? (3M)
b) Discuss how are the activity duration estimated? (3M)
c) Indicate the factors affecting duration? (4M)

OR

14 a) Draw the Network Diagram for the following case. (5M)

1. A & D start at origin
2. C Follows A but preceeds G
3. B Follows A but preceeds F
4. H Follows D but preceeds L
5. E Follows B & C
6. K Follows G & H
7. J Follows F but preceeds K
8. K, L & E are terminal activities
9. F is independent of C
10. L is independent of J

b) Write the detailed procedure involved in critical path method. (5M)

15 a) Briefly explain the problems in resource allocation. (5M)

b) Write short notes on budgetary control methods. (5M)

OR

16 Identify the construction task to be undertaken by mechanical equipment, exploring the equipment and assess the equipment required for a housing unit project. (10M)

17 a) What is meant by evaluation of tenders? (5M)

b) Explain any four types of contract in detail with suitable examples. (5M)

OR

18 a) What are the power and duties of an arbitrator? (5M)

b) What is void, voidable and valid contract? (5M)

19 a) List out the important categories of labour laws. (5M)

b) What are the objectives of The factories Act 1948? (5M)

OR

20 a) Define the objectives of child labour (prohibition and regulation) act 1986. (5M)

b) Explain the payment of wages act- 1936. (5M)