

Code No: 128AZ

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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year II Semester Examinations, May - 2019

CONSTRUCTION MANAGEMENT

(Common to CE, CEE)

Time: 3 hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

(25 Marks)

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- 1.a) Define management. [2]
 - b) Why do we need organizational structure? [3]
 - c) Define activity cost slope. [2]
 - d) Distinguish between bar chart and milestone chart. [3]
 - e) What is crashing of an activity mean? [2]
 - f) What are various forms of scheduling in construction management? [3]
 - g) What is Muster roll? [2]
 - h) What is the difference between the claim and dispute? [3]
 - i) What are the components of MIS? [2]
 - j) Name important acts of Indian labour laws [3]

PART - B

(50 Marks)

- 2.a) What are the main objectives and applications of construction management?
 - b) Explain the various management theories. [5+5]
- OR**
- 3.a) Explain Henry Fayol's principles of management.
 - b) Explain the theories of motivation. [5+5]
- 4.a) Explain in detail the rules of network in construction planning.
 - b) Explain about crashing for optimum cost and crashing for optimum resources. [5+5]

OR

- 5.a) Draw a PERT network for the following and find expected mean time, variance and SD of the project.

Activity	Three-time estimates (days)
0-1	2-3-10
0-2	4-5-6
1-2	0-0-0
1-3	6-7-8
1-4	1-5-9
2-5	3-5-19
3-4	0-0-0

- b) Explain the significance of Beta distribution Curve in PERT analysis. [5+5]

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- 6.a) Write down the steps in the process of Resource levelling.
b) Explain why resource planning is necessary? Describe various steps for planning resources for a project. [5+5]

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- 7.a) Explain the significance of budgetary control in construction industry and means to achieve it.
b) Write down the steps in the process of Resource smoothing. [5+5]

- 8.a) Explain the various types of construction contracts.
b) Explain the important clauses of contract document in construction projects. [5+5]

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- 9.a) Explain the objectives and functions of stores.
b) Explain the process of Arbitration with its merits and demerits. [5+5]

- (10.a) Write in brief the importance of Workmen's Compensation Act.
b) Briefly explain the provisions in Payment of Wages Act. [5+5]

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- 11.a) Write a short note on occupational health hazards in construction industry
b) Explain legal and financial aspects of accidents in construction. [5+5]

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