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Total No. of Pages : 02

Total No. of Questions : 06

Masters in Architecture (2013 &amp; Onwards) (Sem.-3)

**PROJECT MANAGEMENT**

Subject Code : MACH-303

Paper ID : [72481]

Time : 3 Hrs.

Max. Marks : 50

**INSTRUCTION TO CANDIDATES :**

1. Attempt any FOUR questions from unit-I & unit-II.
2. Minimum TWO questions must be attempted from each unit.
3. All question carry equal marks (12.5).

**UNIT-I**

1. Write short notes on :
  - a) Explain the significance of construction management for any nation. What are the objectives of construction management?
  - b) Differentiate between PERT and CPM.
  - c) What is float and explain its types?
2. a) Develop a network for a project comprising ten events with the following predecessor relationships :

Events	1	2	3	4	5	6	7	8	9	10
Immediate predecessor	—	1	2	2	2	3,5	3,4	3,7	7	3,6,8,9

- b) Explain different types of floats.
  - c) Explain Value engineering.
3. Determine optimum time duration and optimum cost for the project with following data and plot the cost-time graph.

Activity	Normal time (days)	Crash time (days)	Crash cost Rs.	Normal cost Rs.
10-20	6	5	400	600
20-30	7	4	300	750
20-40	9	7	360	540
30-40	6	4	500	1000

Indirect cost = Rs. 250/- per day

## UNIT-II

4. Write short notes on :
  - a) The essential functions of human resource management.
  - b) Waste management
  - c) Materials management
5.
  - a) What is the importance of safety on construction sites?
  - b) Explain important points to be checked during inspection of :
    - i. Brick masonry
    - ii. Earthwork
6. Discuss the role & purpose of Inventory Control and techniques of Selective Inventory Control for a construction company.