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Total No. of Pages : 02

Total No. of Questions : 05

B. Arch. (Sem.-10)
CONSTRUCTION MANAGEMENT-I
Subject Code : AR-526
Paper ID : [A0959]

Time : 3 Hrs.

Max. Marks : 50

INSTRUCTION TO CANDIDATES :

1. Attempt any THREE questions.
2. All questions carry EQUAL marks.
3. TWO marks are for neatness.
4. Assume any missing data/dimension.
5. Draw necessary sketches neatly.

Q1. Discuss Aims, Objectives and functions of construction management in detail. (16)

Q2. Discuss the stages of a construction project in detail. Explain briefly the construction team. (16)

Q3. For the project data given below, determine the optimum time duration & optimum cost. Also plot a curve of total cost vs time and show the optimum time duration & optimum cost. (16)

Activity	Normal time (days)	Crash time (days)	Normal cost (Rs)	Crash cost (Rs)
10-20	4	3	400	600
20-30	5	2	300	750
20-40	7	5	360	540
30-40	4	2	500	1000
Assume Indirect cost per day-Rs 250/-				

Q4 From the given relation of activities and their duration (in days) do the following : (16)

- a) Prepare a network.
- b) Calculate project completion time.
- c) Identify critical activities and Establish critical path.
- d) Calculate all the floats and all the activity timings.

Activity	duration
10-20	20
10-30	24
20-50	36
20-70	24
30-40	12
30-60	10
40-50	16
50-60	16
50-70	20
60-70	12
70-80	14

- Q5. a) What are various safety precautions to be taken at a construction site?
- b) Discuss in detail about stages of inspection of construction with examples. (2×8=16)