

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech III Year II Semester Regular Examinations August-2023

CONSTRUCTION PROJECT MANAGEMENT

(Civil Engineering)

Time: 3 Hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 What are the different phases in construction project? Explain briefly. CO1 L2 12M

OR

- 2 a Define and give examples of activity. How it represents? CO1 L1 6M
b The maintenance of project of a building consists of ten jobs. The predecessor relationships are identified by their node numbers, as indicated below: CO1 L3 6M

Job	Identification	Job	Identification
A	(1,2)	F	(4,5)
B	(2,3)	G	(4,7)
C	(2,4)	H	(5,8)
D	(3,6)	I	(6,8)
E	(3,5)	J	(7,8)

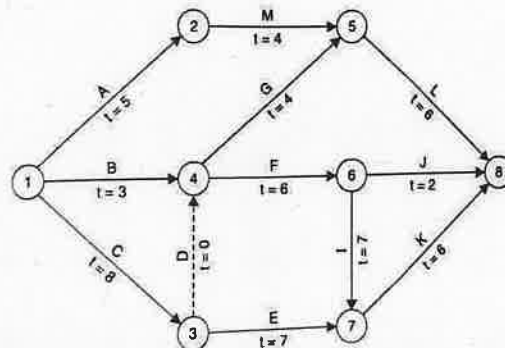
Draw the network diagram for the project.

UNIT-II

- 3 a Define PERT? What are the uses of PERT? CO2 L1 6M
b What are the different types of time estimates involved in PERT? CO2 L2 6M
Explain in detail.

OR

- 4 The network for a certain project shown in fig, along with the estimated durations of various activities. Determine the following. CO2 L3 12M
a) Earliest event time and Latest event time
b) Earliest and latest start and finish times of each activity



UNIT-III

- 5 Explain briefly about project cost. Also explain components involved in total cost. CO3 L2 12M

OR

- 6 Gives the information about various activities of network shown in fig.1

CO3 L3 12M

Activity	Normal duration (days)	Normal Cost (Rs.)	Crash duration (days)	Crash Cost (Rs.)
1-2	9	8000	6	9500
2-3	5	5000	3	5500



Fig-1

The project overhead costs are @ Rs. 300.0 per day. In addition to the overheads there is an outage loss of Rs.100 per day up to and including 11th day and Rs.200 per day thereafter, Find the total cost duration relationship.

UNIT-IV

- 7 What are the different functions of material management?

CO5 L1 12M

OR

- 8 Explain briefly

CO5 L2 12M

- a) Inspection
- b) Quality control
- c) Quality assurance in projects

UNIT-V

- 9 What are the preventive measures to be taken during accidents?

CO6 L1 12M

OR

- 10 What are different types of contracts? Explain briefly.

CO6 L2 12M

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