

Code: 20HS7701E

**IV B.Tech - I Semester – Regular / Supplementary Examinations
OCTOBER 2024**

**CONSTRUCTION MANAGEMENT
(Common for ALL BRANCHES)**

Duration: 3 hours

Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.

2. All parts of Question must be answered in one place.

BL – Blooms Level

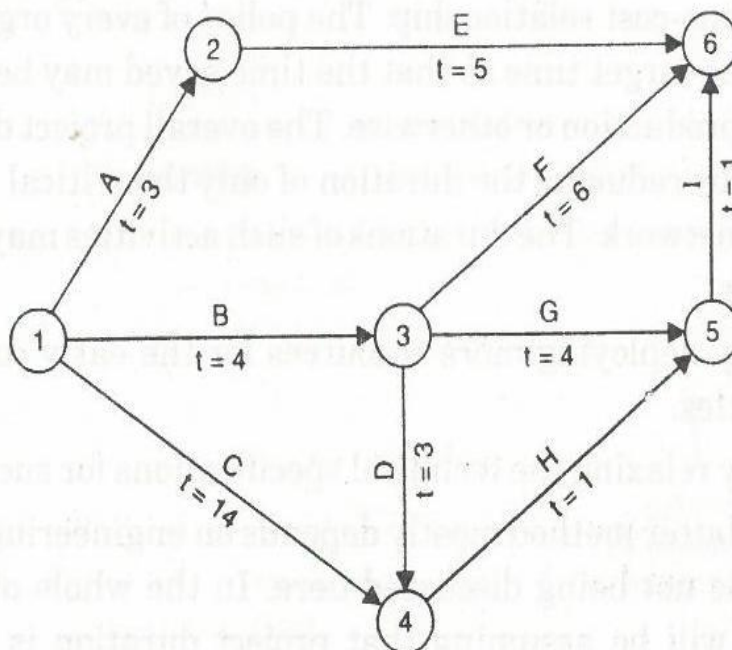
CO – Course Outcome

			BL	CO	Max. Marks
UNIT-I					
1	a)	Explain the Fulkerson’s law in numbering the events.	L2	CO1	7 M
	b)	What are the forms of scheduling? Explain.	L1	CO1	7 M
OR					
2	a)	List out and explain in brief about the network techniques in construction management.	L1	CO1	7 M
	b)	Explain the bar chart and give its limitations.	L2	CO1	7 M
UNIT-II					
3	a)	The following table gives the activity in construction projects i) Draw Network for project ii) Find the critical path	L3	CO2	7 M

iii) Find the free float, total float & independent float for each activity

Activity	Duration (days)
1-2	20
1-3	25
2-3	10
2-4	12
3-4	6
4-5	10

b)



The network shown above has the estimated duration for each activity marked. Determine the total float for each activity and establish the critical path.

L3

CO2

7 M

OR

4

a)

The following table gives the activities in a construction project and the time duration of each activity:

L3

CO2

7 M

		Activity	Preceding activity	Activity duration (days)				
		A	-	16				
		B	-	20				
		C	A	8				
		D	A	10				
		E	B, C	6				
		F	D, E	12				
		(i) Draw the activity network of the project. (ii) Find critical path. (iii) Find the total float and free-float for each activity.						
	b)	Differentiate CPM and PERT.			L2	CO2	7 M	
UNIT-III								
5	a)	Name the resource allocation methods.			L1	CO3	2 M	
	b)	Give the steps involved in any one of the resource allocation methods.			L1	CO3	12 M	
OR								
6		Explain the different costs involved in construction management for material, labour and expenses.			L2	CO3	14 M	
UNIT-IV								
7		What is the scope of construction management and give its significance.			L2	CO4	14 M	
OR								
8	a)	What is safety? How do you ensure safety in a construction site?			L1	CO4	7 M	

	b)	Explain the duties of manager as i) Decision maker ii) Motivator	L2	CO4	7 M
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UNIT-V

9		List out the various types of organizations and explain any three in detail.	L2	CO5	14 M
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OR

10	a)	Discuss about workmen's compensation act?	L2	CO5	7 M
	b)	Write about the labour problems in construction.	L2	CO5	7 M