Code: 19HS1703

IV B.Tech - I Semester - Regular Examinations - DECEMBER 2022

CONSTRUCTION MANAGEMENT (CIVIL ENGINEERING)

Duration: 3 hours Max. Marks: 70

Note: 1. This question paper contains two Parts A and B.

- 2. Part-A contains 5 short answer questions. Each Question carries 2 Marks.
- 3. Part-B contains 5 essay questions with an internal choice from each unit. Each question carries 12 marks.
- 4. All parts of Question paper must be answered in one place.

BL – Blooms Level

CO – Course Outcome

PART - A

		BL	CO
1. a)	What are the limitations in Bar chart scheduling?	L2	CO1
1. b)	List out the types of project scheduling.	L1	CO2
1. c)	Define Resource Smoothening.	L1	CO3
1. d)	What is the significance of construction management?	L2	CO4
1. e)	Mention the salient points in Minimum Wages Act of 1948.	L2	CO5

PART – B

		BL	СО	Max. Marks
	UNIT-I			
2	Write a short note on project planning,			
	scheduling and controlling along with various	L2	CO1	12 M
	tools used in each stage?			

				0	R				
3	a)	the advantages and limitations of the					L2	CO1	7 M
		Milestone Chart?							
	b)		is a dun rtance.	nmy activit	L2	CO1	5 M		
	<u>I</u>			UNI	T-II				
4	Dr	aw the	e network	for the fol	lowing p	roject			
	and	d indic	cate the ev	ent times ar	nd critical	path.			
	Al	so fin	d the proj	ect duration	n and the	total			
	flo	at for	all activitie	es.					
	A	ctivity	Preceding	Succeeding					
			Activity	Activity	Duration				
	A		-	В,С	4		L4	CO2	12 M
	B		A	D,E	1				
	C		A	F,G	5				
	D		В	H	3				
	E		В	Ι	3				
	F		C	I	1				
	G		C	J	2				
	H		D	-	7				
			E,F	-	6				
	J		G	<u>-</u>	<u> </u>				
_		W714	10 200	Ol		otin ~?			
5	a)			nt by proj	_	_	1.0		<i>(</i>) <i>(</i>)
	Explain the process to be followed for updating and when to update?							CO2	6 M
	b) Discuss about the factors affecting the project scheduling.						L2	CO2	6 M
	•								

				UN	IT-III					
6	The following are the information available									
	abo	out the va	arious acti	k:						
		Activity	Normal	Normal	Crash	Crash				
			Duration	Cost	Duration	Cost				
			in days	Rs.	in days	Rs.				
		1-2	4	5000	3	5500				
		1-3	6	9000	1	10000				
		2-3	7	7000	1	8400				
		3-4	5	7500	3	6300	L4	CO3	12 M	
		3-5	6	8400	4	10600	2.		12 111	
		4-6	5	6600	4	5400				
		5-6	4	6000	3	4500				
		Determin i) Direct ii) Total (head cost le: Cost dura Cost dura conding le	tion rela	tionship tionship &	•				
	1				OR		T			
7	a) Explain the following terms: (i) indirect cost (ii) crash time (iii)free float limit (iv) operation time					L2	CO3	6 M		
	b) What is Resource levelling? Explain its significance in project management?						L2	CO3	6 M	
				UN	IT-IV					
8	a) Write about the significance of construction management.						L2	CO4	7 M	
	b) Why safety is important in construction industry? Explain.						L2	CO4	5 M	
	1	1					1	<u> </u>		

OR										
9	Dis	scuss in detail about the roles of various								
	sta	ke holders of construction industry in	L2	CO4	12 M					
	COI	nstruction management.								
	UNIT-V									
10	Wl	nat are the various types of organization in								
	COI	nstruction industry? Explain each type,	L2	CO5	12 M					
	the	ir merits and demerits in detail.								
	OR									
11	a)	What are the problems that the labours	L2	CO5	7 M					
		face in construction industry? Explain.		CO3	/ IVI					
	b)	What the workmen's compensation act of	L2	COS	5 M					
		1923 says? Explain.		003	J 1V1					