Code No: R203101A (R20) (SET - 1)

## III B. Tech I Semester Regular/Supplementary Examinations, December -2023 CONSTRUCTION TECHNOLOGY & MANAGEMENT

(Civil Engineering)

Time: 3 hours Max. Marks: 70				
		Answer any 1	FIVE Questions ONE Question from Each unit	
		·	All Questions Carry Equal Marks	
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			<u>UNIT-I</u>	
1.	a)	What do you understand by 'earliest start time' and 'latest start time of an		[7M]
		activity'? How are these determined?		
	b)	Discuss about monitori	ing and controlling in project planning.	[7M]
		(OR)		
2.	a)	Describe the stages and types of planning in construction management.		[7M]
	b)	Describe in detail about the different construction methods. Discuss their		[7M]
		merits and demerit.		. ,
			<u>UNIT-II</u>	
3.	a)	Explain about Project e	evaluation and review technique with one example?	[7M]
	b)	-	ain in detail about the functions and limitations of PERT.	
		2p	(OR)	[7M]
4.	a)	Draw a PERT network	w a PERT network for the following and find expected mean time, variance	
••	α)	and SD of the project	Tor the rone wing that that expected mean time, variance	[7M]
		Activity	Three-time estimates (days)	
		0-1	2-3-10	
		0-2	4-5-6	
		1-2	0-0-0	
		1-3	6-7-8	
		1-4	1-5-9	
		2-5	3-5-19	
		3-4	0-0-0	
	b)	Explain the use of PER		[7M]
	U)			
_			<u>UNIT-III</u>	[ <b>7] \ (</b> ]
5.	a)	Write short notes on fo		[7M]
	<b>1</b> - \	1. Crawler tractor 2. Wheel tractor		[7] [1]
	b)	what are the different	types of cranes? Explain the types in detail.	[7M]
			(OR)	
·		Draw a neat sketch of a	a crawler mounted bulldozer and show various parts.	[7M]
	b)	Discuss factors affecting output of a drag line.		[7M]
			<u>UNIT-IV</u>	
7.	a)	Discuss in detail different factors affecting selection of construction equipment		[7M]
	b)	Explain about placing		[7M]
			(OR)	
8.	a)	Discuss about screening of aggregate.		[7M]
	b)	Explain about consolidating and finishing.		
_			<u>UNIT-V</u>	
9.	a)	Discuss importance of safety in construction sites.		[7M]
	b)	State and describe var	ious causes of accidents at the construction site.	[7M]
1.0	(OR)			[7] [7]
10.	a)		control and safety engineering.	[7M]
	b)	Explain the different Construction methods.		[7M]

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