SET - 1

[5M]

III B. Tech I Semester Regular Examinations, February-2022 CONSTRUCTION TECHNOLOGY & MANAGEMENT

(Civil Engineering)

Time: 3 hours Max. Marks: 75

Answer any **FIVE** Questions **ONE** Question from **Each unit**All Questions Carry Equal Marks

UNIT-I

- 1. a) Explain in detail the role of construction project manager on [8M] construction project.
 - b) Explain the work breakdown structure for residential building. [7M]

(OR

- 2. a) What is Gantt bar chart and mile stone chart? Differentiate both. [8M]
 - b) Discuss objectives of construction management and explain [7M] Planning, Scheduling and Controlling as a function of Construction Management.

UNIT-II

- 3. a) Explain the term "Updating". Why updating is necessary? [5M]
 - b) What do you mean by PERT? Explain its significance. Plot a neat [10M] sketch for different time estimates.

(OR)

- 4. a) A project consists of 16 activities having their predecessor [10M] relationships as follows:
 - (i) A is the first activity of the project
 - (ii) B,C & D follow A and can be done concurrently
 - (iii) E & G cannot begin until C is completed and can be performed simultaneously
 - (iv) F is the immediate successor to activities B & E.
 - (v) H & K run in parallel & both succeed G
 - (vi) L succeeds F & H
 - (vii) I & J are immediate successor activities to activity D.
 - (viii) I & J are immediate successor to I & K. however both M & N can be performed concurrently
 - (ix) Activities O & P are the last activities. Activity O is the immediate successor to N & L. Activity P is the immediate successor to M & J.

Draw the network and number the events.

b) Write short notes on crashing of resources.

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UNIT-III

UNIT-III			
5.	a)	Explain economic life of construction equipment in detail.	[6M]
	b)	What are dozers? Discuss their classification and mention their	[9M]
	·	uses and advantage over other earth moving equipment.	
(OR)			
6.	a)	Explain excavating equipment. Draw a neat sketch and explain	[9M]
		working of any one of excavating equipment.	
	b)	Write short notes on compaction rollers.	[6M]
<u>UNIT-IV</u>			
7.	a)	Explain the functions of following components with reference to	[8M]
		Belt conveyer System: Belt, Feeders, Hold backs, Take ups.	
	b)	Describe the various methods of dewatering system.	[7M]
		(OR)	
8.	a)	Write short notes on different types of crushers.	[6M]
	b)	What equipment is used for manufacturing of concrete? Discuss.	[9M]
<u>UNIT-V</u>			
9.	a)	Which are the causes of accident in construction project? Also	[8M]
		explain why safety is important on construction project site.	
	b)	What is fabrication? Explain about welding.	[7M]
		(OR)	
10.	a)	What is a formwork? Explain their objectives, requirements and	[8M]
		materials of form work.	
	b)	What is erection? Explain how erection is carried out and the	[7M]
		steps involved in successful erection of structures.	

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