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## III B. Tech I Semester Supplementary Examinations, June/July-2022 CONSTRUCTION TECHNOLOGY & MANAGEMENT

(Civil Engineering)

Max. Marks: 75

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

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## <u>UNIT-I</u>

- 1. a) Write short notes on scope of construction management. [6M]
  - b) What is work break down structure in construction project? [9M] Draw work break down structure of a residential building project.

## (OR)

- 2. a) What is bar chart? Explain with the help of suitable example [9M] the method of preparing a bar chart.
  - b) Explain the classification of schedules and explain each of [6M] them in detail.

## UNIT-II

- 3. a) Define the following: (i) PERT, (ii) Optimistic time, [8M] (iii) Pessimistic time, (iv) Most likely time, and (v) free float.
  - b) For an activity the optimistic time, pessimistic time and most [7M] likely time estimates are 6, 16, and 10 days respectively. Calculate the Expected time, standard deviation and variance of activity.

## (OR)

- 4. a) Explain cash flow diagram with simple example. [8M]
  - b) Write short notes on Network Updating.

# <u>UNIT-III</u>

- 5. a) Write short notes on (i) Crawler tractor (ii) Wheel tractor. [6M]
  - b) Write about Excavators? Write about the working mechanism [9M] of power shovel, backhoe & mention their characteristics.

## (OR)

- 6. a) What is mechanized construction? Explain the factors on [8M] which the deployment of construction equipment and equipment selection depends.
  - b) What are rollers? Differentiate them depending upon the [7M] operation and mention about any 1 of them in detail with neat sketches.

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Code No: R193101E

Time: 3 hours



SET - 1

[7M]

#### Code No: R193101E



#### UNIT-IV

7.	a)	What is the difference between jaw crushers and gyratory	[8M]
		crushers? Discuss.	
	b)	Write short notes on concrete mixer.	[7M]
(OR)			
8.	a)	What is concreting? Explain about different types of concreting	[8M]
		methods and mention their effects in each type.	
	b)	How screening of aggregates is done? Explain.	[7M]
UNIT-V			
9.	a)	What is piling? Write about the methods of pile driving and	[9M]
		mention the causes for failure of piles.	
	b)	Discuss in detail the various units in concrete production	[6M]
		plants.	
(OR)			
10.	a)	Describe safety requirements for demolition works, and safety	[6M]
		measures to be adopted for excavation.	
	b)	What are hauling equipment? Write about their classification,	[9M]
		uses, and advantages, with neat sketches.	-

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