Total number of printed pages:

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Civil Engineering (D)/VI/DCE603

2023

CONSTRUCTION AND PROJECT MANAGEMENT

Full Marks: 100

Time: Three hours

The figures in the margin indicate full marks for the questions.

Answer any five questions.

Central Institute Of Technology

1.	a)	What are the characteristics of PERT?	5
	b)	Explain different methods of network representation.	5
	c)	Explain five rules for developing a network with an example for each rule.	10
2.	a)	Explain the safety measures to be adopted during drilling and blasting	5
	b)	Explain the fire safety measures to be followed.	5
	c)	Calculate the float and determine the critical path for the network shown below. $\begin{array}{c ccccccccccccccccccccccccccccccccccc$	10
3	a)	What are the limitations of bar chart?	5
	b)	What are the safety measures for demolition?	5
	c)	Define the following	10
		i) Activity	
		ii) Event	
		iii) Critical Path	

4.	a)	What are the uses of preparing material schedule? Prepare material schedule for construction of small RCC room.	5
	b)	What are the purposes of preparing labour schedule during construction?Prepare material schedule for construction of small RCC room.	5
	c)	Solve the network given below	10
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5.	a)	Explain the resources required for construction industry.	5
	b)	What are the objectives of construction management?	5
	c)	Explain five stages in construction.	10
6.	a)	Explain lumpsum contract with its advantages and disadvantages.	5
6.	b)	What are the advantages of arbitration?	5
6.		Explain different types of special contracts.	10

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