

Total number of printed pages: Civil Engineering (D)/VI/DCE603

2024

CONSTRUCTION AND PROJECT MANAGEMENT

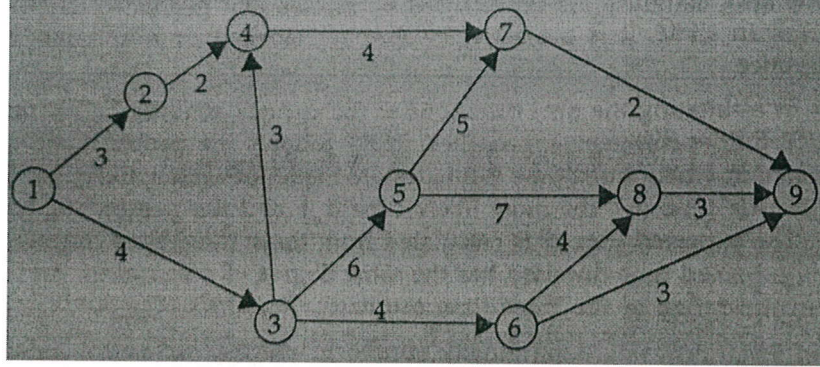
Full Marks: 100

Time: Three hours

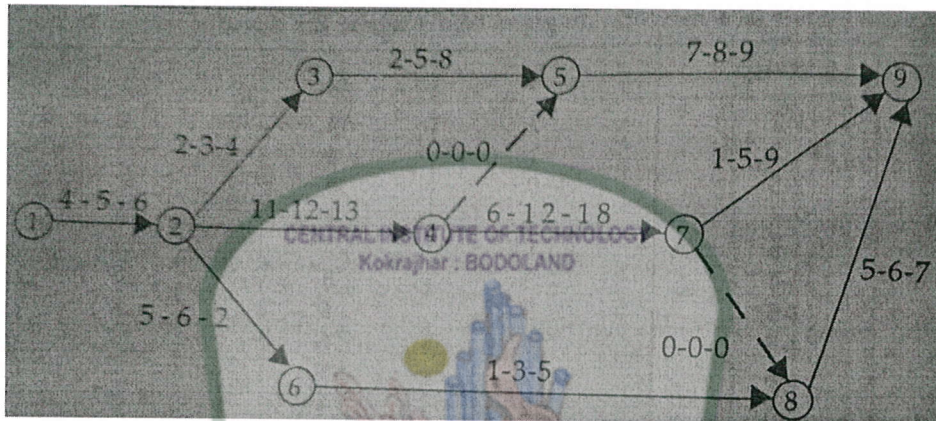
The figures in the margin indicate full marks for the questions.

Answer any five questions.

1.	a)	Explain critical path.	5
	b)	Explain different time estimates used in PERT.	5
	c)	Give the differences between PERT and CPM.	10
2.	a)	What are the advantages of Arbitration?	5
	b)	Prepare a bar chart for foundation construction.	5
	c)	Explain the rules for developing network with sketches.	10
3	a)	What is labour schedule? What are the purposes it serves?	5
	b)	What are the merits of material schedule? Prepare a material schedule for construction of temporary shed.	5
	c)	Explain the important conditions of contract.	10
4.	a)	Write the safety precautions to be taken during excavation.	5
	b)	Write the safety precautions to be taken during demolition.	5
	c)	Explain different types of special contracts.	10
5.	a)	Explain the functions of construction management.	10
	b)	For the network shown below, calculate the event times, activity times, float and critical path.	10



Analyse the network shown below.



6.

20

