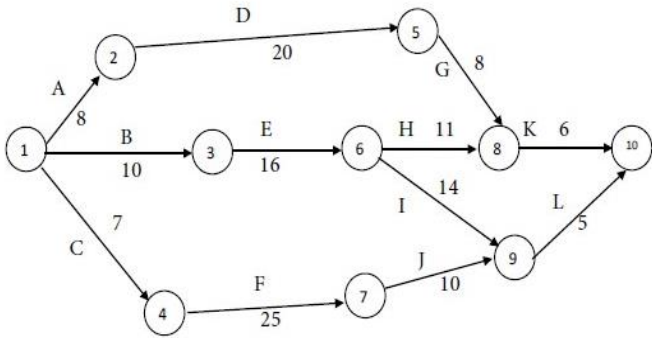
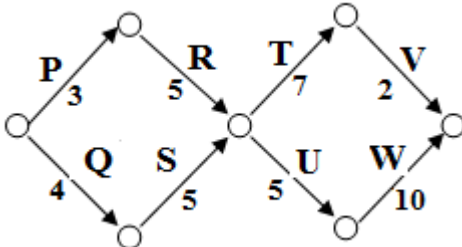
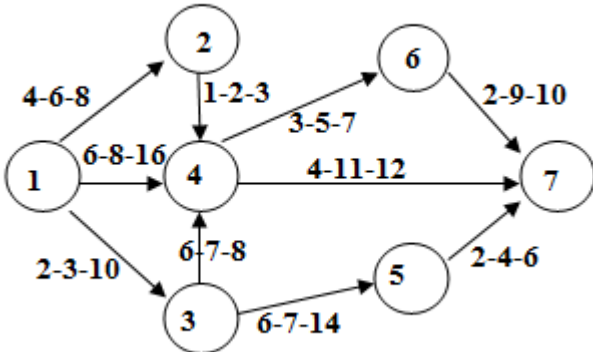




	b)	For the network diagram in Figure 1, determine the completion time and the critical activities.	CO1	PO11	14
		 <p style="text-align: center;">Figure 1</p>			
		<b>OR</b>			
3	a)	Determine the critical path for the network shown below considering the data provided in Figure 2	CO1	PO11	8
		 <p style="text-align: center;">Figure 2</p>			
	b)	For the network diagram shown in Figure 3, find the probability that the project is completed in 19 days. Also, find the probability of completing it in 24 days.	CO1	PO11	12
		 <p style="text-align: center;">Figure 3</p>			
		<b>UNIT - III</b>			
4	a)	With an example discuss importance of resource planning in a construction project.	CO2	PO11	10
	b)	Highlight any 5 features of BIM software which makes it an effective tool for construction project management tool.	CO2	PO11	10

		<b>UNIT - IV</b>			
5	a)	Your client is 40 years old and wants to begin saving for retirement. You advise the client to put Rs. 5,000 a year into the stock market. You estimate that the market's return will be on average of 12% a year. Assume the investment will be made at the end of the year. How much money will she have by age 65. `Considering he had invested a decade earlier, how much would he have accumulated considering the above investment plan.	CO2	PO11	<b>8</b>
	b)	Elaborate on working capital management with a sketch. Discuss the main objectives of the process.	CO2	PO11	<b>12</b>
		<b>OR</b>			
6	a)	What is the present value of an annuity of Rs. 3,000 per year, with the first cash flow received five years from today and the last one received eleven years from today? Use a discount rate of eight percent. Draw the cash flow diagram.	CO2	PO11	<b>8</b>
	b)	Establish the difference between regular accounting and construction accounting. List the different methods of construction accounting.	CO2	PO11	<b>12</b>
		<b>UNIT - V</b>			
7	a)	Discuss any five principles of professional ethics essential for a civil engineer.	CO2	PO8	<b>10</b>
	b)	Demonstrate any five forms of unethical practices in construction industry.	CO2	PO8	<b>10</b>

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