GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI EXAMINATION - SUMMER 2025

Subject Code: 3161303	Date: 26-05-2025
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Subject Name: Estimation, Specifications and Project Management

Time: 10:30 AM TO 01:00 PM	Total Marks:70
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Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. Simple and non-programmable scientific calculators are allowed.

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Q.1	(a) (b)	Enlist types of shallow foundation and describe isolated sloped footing in detail. Differentiate between Long-wall Short-wall and Centre Line method.	03 04
	(c)	Illustrate different types of Rubble Masonry.	07
Q.2	(a)	Give the market rates for following materials i. Cement ii. Steel iii. Red Brick	03
	(b)	A local municipal corporation wants to construct overhead water tank with 10,00,000 litter capacity. Prepared tender notice.	04
	(c)	State the different types of contracts, explain any one in detail. OR	07
	(c)	State the factors affecting cot of project.	07
Q.3	(a)	Write the essential requirement of Contract.	03
	(b)	State the objectives of estimation.	04
	(c)	Write the detail specification for 1 st class brick masonry work OR	07
Q.3	(a)	Discuss the security deposit and earnest money deposit.	03
	(b)	Illustrate SOR.	04
	(c)	Write the detail specification for PCC work in 1:4:8 proportion.	07
Q.4	(a)	Write short notes on Arbitration.	03
	(b)	Describe lump sum contract.	04
	(c)	Prepare the Rate Analysis for RCC work in 1:1.5:3 proportion. OR	07
Q.4	(a)	Discuss work charge establishment.	03
~··	(b)	Describe unit rate contract.	04
	(c)	Prepare the Rate Analysis for single coat smooth plaster in 1:3 proportion.	07
Q.5	(a)	State the importance of project scheduling.	03
	(b)	Illustrate project networking with example.	04
	(c)	Write short notes on Mile stone chart and Barr chart.	07
		OR	
Q.5	(a)	State the objectives of project planning.	03
	(b)	Illustrate dummy activity in project network.	04
	(c)	Write short notes on PERT and CPM.	07
