



B.E./B.TECH DEGREE EXAMINATIONS: NOV/DEC 2022

(Regulation 2018)

Seventh Semester

B.E. CIVIL ENGINEERING

U18CET7001 ESTIMATION, COSTING AND VALUATION

COURSE OUTCOMES

- CO1:** Estimate the quantities for buildings, roads, culvert, Septic tank
CO2: Rate Analysis for all Building works, canals, and Roads and Cost Estimate.
CO3: Understand types of specifications, principles for report preparation, tender notices types.
CO4: Gain knowledge on types of contracts
CO5: Evaluate valuation for building and land.

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

(Answer not more than 40 words)

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|--|-----|-------------------|
| 1. What are the types of estimates? | CO1 | [K ₁] |
| 2. Estimate the quantities of brickwork and plastering required in a wall 4m long, 3m high and 30 cm thick. Calculate also the cost if the rate of brickwork is Rs.32.00 per cu.m and of plastering is Rs. 8.50 per sq.m | CO1 | [K ₅] |
| 3. Recall the term 'Analysis of work'. | CO2 | [K ₁] |
| 4. Define 'Obsolescence'. | CO2 | [K ₁] |
| 5. Why and when the security deposit is collected? | CO3 | [K ₁] |
| 6. Define detailed specification | CO3 | [K ₁] |
| 7. What is arbitration? | CO4 | [K ₁] |
| 8. Identify the important legal implications of a contract. | CO4 | [K ₁] |
| 9. Define valuation | CO5 | [K ₁] |
| 10. Mention the important factors influencing the value of building? | CO5 | [K ₁] |

Answer any FIVE Questions:-

PART B (5 x 16 = 80 Marks)

(Answer not more than 400 words)

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|---|----|-----|-------------------|
| 11. Explain in detail about Methods of estimation | 16 | CO1 | [K ₂] |
| 12. Explain the following in detail: | | CO2 | [K ₂] |
| i. Principles of Cost Estimation | 8 | | |
| ii. Standard Data | 4 | | |

	iii. Cost Control	4		
13.	i. Write in detail about tendering	8	CO3	[K ₂]
	ii. Explain E-tendering and list the advantage of E tendering	8		
14.	Write in detail on		CO4	[K ₂]
	i. Lump Sum Contract	4		
	ii. Labour Contract	4		
	iii. Time & Materials Supply Contract	8		
15.	Explain the various methods of valuation	16	CO5	[K ₂]
16.	A building has been constructed for Rs.12,00,000. Assuming its salvage value at the end of 6 years as Rs.3,00,000, determine the amount of depreciation and book value for the 6 years by Straight line method, Constant percentage method and Sinking fund method 4 % rate of interest.	16	CO5	[K ₅]
