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PRN:		Course Code :	CET401

Final Year **B. Tech** End Semester Examination Summer 2023

Quantity Surveying and Valuation

Day and Date: Monday, 12/6/23 Max Marks: **100**

Time : 2:00 pm – 5:00 pm Duration: **03** hrs.

Instructions: All questions are compulsory.

		Marks	Bloom's Level	CO
Q.1	**Attempt the following**			
a)	Define Specification. Explain Purpose of Specification.	08	02	CO1
b)	Explain Administrative approval and Technical Sanction in detail.	08	02	CO1
	OR			
b)	Write note on District Schedule Rate.	08	02	CO1
Q.2	**Attempt the following**			
a)	Explain prime cost, provisional sum and provisional quantitates in detail.	08	03	CO2
b)	Prepare rate analysis for M25 grade concrete. Take quantity 10 cum	08	03	CO2
	OR			
b)	Define Task work and explain factors affecting task work.	08	02	CO2
Q.3	**Attempt any two from the following**			
a)	Explain importance of approximate estimate.	08	02	CO3
b)	Enlist and explain various methods of approximate estimate.	08	02	CO3
c)	Prepare Bar bending Schedule for beam having c/s 300 x 425 mm. Overall length of beam is 6.85 m. Reinforcement details is as follows. Draw section at mid span and near to end 1) Anchor / Top Bar – 2 Nos. 16 mm dia. 2) Bent bar at 450 – 2 Nos. 20 mm dia. 3) Bottom Straight Bar – 2 Nos. 20 mm dia. 4) Stirrups – 10 mm dia.135 c/c. 5) End Cover -30 mm 6) Side Cover -25 mm	08	04	CO3
Q.4	**Attempt any two from the following**			
a)	Define tender and explain various tender documents in detail.	08	02	CO3
b)	Explain item rate contract and percentage rate contract with advantages and disadvantages	08	02	CO3
c)	Draft tender notice for construction of ring road around Kolhapur city. Estimated cost is 10 Cr.	08	03	CO3
Q.5	**Attempt any Two of the following**			
a)	Define valuation and explain various purpose of valuation.	09	02	CO4
b)	Enlist and explain various types of lease.	09	03	CO4
c)	Write note on freehold and leasehold properties.	09	03	CO4

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Q.6	**Attempt any Two of the following**				
a)	Write note on 1) Gross yield and net yield 2) Outgoing 3) Capitalized value 4) Sinking fund		09	03	CO4
b)	A concrete mixer was purchased at Rs. 120350/-. Assuming salvage value to be 8% after five years, calculate book value for each year by straight line method and constant percentage method.		09	03	CO4
c)	A leasehold property is to produce a net annual income of Rs. 12000 for the next 30 years. The owner expects a return of 8% on his capital and also sets apart a sinking fund installment to accumulate at 6% annually to replace the capital. Determine the value of the property.		09	04	CO4

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