MANIPAL INSTITUTE OF TECHNOLOGY

(A constituent unit of MAHE, Manipal)

MANIPAL INSTITUTE OF TECHNOLOGY SIXTH SEMESTER B.TECH (CIVIL ENGINEERING) END SEMESTER EXAMINATION, MAY 2024 ESTIMATION, COSTING AND VALUATION PRACTICE (CIE 3252)

(-05 - 2024)

TIME: 3 HRS.

MAX. MARKS: 50

Note: 1. Answer all questions.

2. Any missing data may be suitably assumed.

Q.	QUESTION										CO	BL
1A 1A	The accompanying sketch (Fig. 1.) shows the plan of a building and a section through the walls. Calculate the quantity of cement concrete bed in main wall using center line method.										1	3
18	Calculate the quantities of earthwork in making a proposed road from the chainage 1 to 8 using the trapezoidal (average end area) formula. The RL of ground points at each chainage is as given in the table shown below. The proposed road is having RL 52.00m at the station 3 and a uniform up ward 							4	1	3		
1C	Explain (i) Contingencies and (ii) Administrative Approval									2	1	2
2A	Differentiate between Regular charge establishment and Work charge establishment.									4	1	2
2B	The accompanying sketch (Fig. 1.) shows the plan of a residential building and a section through the walls. Calculate the quantities of floor finish.								4	1	3	
2C	Explain direct sales comparison method in valuation of open land?								2	5	2	
3A	Calculate the unit rate for the 12 mm thick cement plastering 1 : 6 on new brickwork									4	4	3
3B	A leasehold property is to produce a net annual income of Rs.12,000 for the next 30 years. The owner expects a return of 8% on his capital and also sets							4	4	3		

	apart a sinking fund instalment to accumulate at 6% annually to replace the			
	capital. Determine the value of the property.			
3 C	Explain Functional depreciation with example	2	5	2
4A	An owner has decided to sell his vacant property with a 30 year old single storied building having a total plinth area of 130 sq. m. The cost of land is Rs. 30,00,000/-; compared with the adjoining areas. There is no comparable instance of letting value available in the locality but the present plinth area rate to construct such a new building has been determined from current sale price which is Rs. 8,000 per sq m. Calculate the sale price of the property having a total life of 60 years and when the rate of annual sinking fund interest is 5%.	4	5	3
4B	 A new building having six equal flats is constructed at a cost Rs. 30,00,000/- on a plot of land costing Rs. 10,00,000/ The owner expects 12% return on the construction cost and 8% return on cost of land. Calculate the standard rent for each flat of the building considering the following data Future life of the building be 70 years Interest on sinking fund be 6% Scrap value 10% Annual repair at 1% of the cost of construction Other outgoings at 30% of net return from the building 	4	5	3
4 C	Discuss the influence of Frontage & depth on the value of open land.	2	5	2
5 A	Explain the term tender and list the tender documents.	4	6	2
5B	Explain earnest money deposit and security deposit	4	6	2
5 C	Describe the Duties and liabilities of the Engineer?	2	6	2

