MANIPAL INSTITUTE OF TECHNOLOGY SIXTH SEMESTER B.TECH (CIVIL ENGINEERING) END SEMESTER EXAMINATION, MAY 2024

ESTIMATION, COSTING AND VALUATION PRACTICE (CIE 3252)

(04-05-2024)

TIME: 3 HRS. MAX. MARKS: 50

Note: 1. Answer all questions.

2. Any missing data may be suitably assumed.

Q. NO	QUESTION								MARKS	CO	BL	
1A	The accompanying sketch (Fig. 1.) shows the plan of a building and a section through the walls. Calculate the quantity of earthwork excavation in main wall using long and short wall method.										1	3
1B	Calculate the quantities of chainage 11 to 18 using the each chainage is as given having RL 81.00m at the from station 11 to 18. For slopes in cutting 1:1 and Stations/Chainage(30m) RL of ground	he prism n in the e station mation in banki	noida table n 13 width ing 2:	l forme show and and of the	ula. To belo unifor prop	he RL ow. Th rm up	of gro e prop ward g	und po osed r gradien	oints at road is at 50:1	4	1	3
1C	Explain work charged establishment and technical sanction									2	1	2
2A	The accompanying sketch (Fig. 2.) shows the reinforcement details for a RCC slab 150 mm thick resting on walls of a two room building. Wall thickness is 0.3 m thick. Prepare a bar bending schedule for straight bar in entire slab reinforcement. Cover for reinforcement is 30 mm. use TMT steel for the reinforcement.								5	1	3	
2B	The accompanying sketch (Fig. 1.) shows the plan of a residential building and a section through the walls. Calculate the quantities of external plastering.								3	1	3	
2C	Discuss the influence of location of a building in its valuation?									2	5	2
3A	Calculate unit rate for the Coursed Rubble stone Masonry in CM (1:6) in Superstructure							4	4	3		

3B	An equipment was purchased at Rs. 80,000/ Assuming salvage value to be		4	3
	Rs. 10,000/-, after 6 years. Calculate the depreciation for each year adopting			
	a) Straight line method, b) SOY method.			
3C	List the different methods of Valuation. Briefly explain Rental method of valuation.	2	5	1
4A	An owner has decided to sell his vacant property with a 18 year old single storied building having a total plinth area of 100 sq. m. The market value of the land is Rs. 10,00,000/- as 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. 10,000 per sq m. Calculate the sale price of the property having a total life of 70 years and when the rate of annual sinking fund interest is 6%.	5	5	3
4B	The gross rent accruing to a property is Rs. $30,000/$ p. m. Allowing 10% as deductions for repair, maintenance and management of the property. Calculate the rental value of the property @ $i = 9\%$. Assume the rent to be realized for a very long period.	3	5	3
4C	With the neat sketch explain belting method of valuation for open land.	2	5	2
5A	Explain in detail the essentials of Contract.	5	6	2
5B	Explain the terms (1)Liquidated Damage, (2) Completion Certificate,	3	6	2
	(3) Unbalanced Tender,			
5 C	Explain the term Informal tender.	2	6	2



