Total number of printed pages:3

Diploma/6th Semester/DCE 601

2023

ESTIMATION AND COSTING

Full Marks : 100

Time : Three hours

The figures in the margin indicate full marks for the questions.

Answer all five questions.

Central Institute Of Technology

1.	Prepare an estimate for the portion of a road from chainage 14 to 22 from the data given										en	20
	below. Draw also the longitudinal and typical cross sections for cutting and banking. Th										he rate	
	of earthwork in cutting is Rs. 8.50 per cum and embankment is Rs. 7.50 per cum.											
		formation width of the proposed road is 12 m, side slopes 1.5:1 in cutting and 2:1 in baking.										
		Chainage	14	15	16	17	18	19	20	21	22	
		(30 m)		$\geq \parallel \square$	M	1						
		RL of GL	108.6	109.25	109.	108.	108.5	107.2	106.8	107.1	107.2	
					4	85		5		5		
		The road formation is proposed at uniform falling gradient 1 in 200. RL of formation at 1										
		chainage is 108.6. Length of one chain = 30 m.										
	2 a Analyze the rate of 2.5 on thick can be a 1.2.4 days of 7.5											
2	Analyse the rate of 2.5 cm thick cement concrete 1:2:4 damp proof course (L										I sqm,	8
1		take 100 sqiii.										
	b.	Define valuation. What are the purposes of valuation? Explain the methods of valuations.										2+5+5=12
3.		Prepare the detailed estimate of the masonry water tank of 7mx5m from the given drawing and specification									20	
)	Specifications										
		Foundation – Lime concrete.										
		Masonry- 1 st class brickwork in cement mortar 1:6.										
		Wall finishing- Inside 12 mm cement plastered 1:2 with coarse sand										8 93 11
		Top and outside 12 mm cement plastered 1:4 with local sand										
		Flooring- 5 cm cement concrete 1:1.5: 3 over 20 cm lime concrete with neat cement finishing.										2
		Rates										
		i. Eart	hwork in	excavation	@ Rs.3	50 per %	∕₀ cum					
		r										



