Total No. of Questions: 6

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Enrolment No.....



Faculty of Engineering End Sem Examination May-2024

CE3CO32 Quantity Surveying & Estimation

Programme: B.Tech. Branch/Specialisation: CE

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d. Assume suitable data if necessary. Notations and symbols have their usual meaning.

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Q.1	i.	The average horizontal distance between the centre of excavation to the centre of deposition is called:						
		(a) Lead	(b) Lift	(c) Chainage	(d) None of these			
	ii.	Unit of measurement for the work of plastering is:						
		(a) sq. ft.	(b) sq. m.	(c) cu. ft.	(d) cu. m.			
	iii.	Engineering works created through the processing of parts of the earth's				1		
		surface involving quantities of soil or unformed rock are called as:						
		(a) Surface wo	ork	(b) Land work	X .			
		(c) Earth work	K	(d) Hose work	X			
	iv.	For initial estimate for a beam design, the width is assumed as:						
		(a) 1/15 th of span		(b) $1/10^{th}$ of s	(b) 1/10 th of span			
		(c) $1/20^{th}$ of sp	pan	(d) $1/30^{th}$ of s	pan			
	v.	Amount that an asset is estimated to be worth at the end of its useful life:						
		(a) Salvage value		(b) Book valu	(b) Book value			
		(c) Ratable va	lue	(d) Obsolesce	nce value			
	vi.	The process of determining the number of materials, resources, and 1						
		especially project costs needed to operate during a construction project						
		is called as:						
		(a) Presentation	on	(b) Surveying				
		(c) Estimation	1	(d) Costing				
	vii. Which one is not a purpose of tender system: -							
		(a) Competitiv	ve rates	(b) Value for	money			

(d) Guarantee

(c) Equity in selection of firms

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	viii.	What is full form (a) Essential Matte								1
		(b) Earnest Money		-						
		(c) Early Money I	-	,10						
		(d) Extra Material	-							
	ix.	A specified period		he comp	oletion o	of a cons	struction	n project	during	1
		which the contrac								
		that may arise is c		1		•				
		(a) Completion pe			(b)	Project	holding	g period		
		(c) Defect liability	period		(d)	None o	f these			
	х.	How are final con	tracts si	igned in	moderr	n busine	ess?			1
		(a) e-Signatures			(b)	Docum	ent scar	nning		
		(c) Thumb impres	sion		(d)	Shakin	g hands			
Q.2	i.	Write a short note	on abst	tract she	et.					2
	ii.	Differentiate betw	een app	oroval a	nd sanct	ion.				3
	iii.	What do you un	nderstai	nd by	detailed	projec	et repor	t? Disc	cuss its	5
		characteristics in o	detail.							
OR	iv.	Discuss any five t	ypes of	estimat	es in de	tail.				5
Q.3	i.	Enlist the methods	s used t	o calcul	ate the (earthwc	rk for a	ny tyne	of road	2
Q. .3	1.	construction.	s asca t	o carcar	ate the v	cartiiw	ik for a	ily type	or roud	_
	ii.	Calculate the quar	ntity of	earthwo	rk for a	road se	ection ha	aving fo	llowing	8
		data-	1010) 01			1000	••••	.,8 10		
		Chainage (m)	0	30	60	90	120	150	180	
		G.L. (m)	80.2	80.1	79.9	79.8	79.9	80.0	80.2	
		Formation width								
		and the road has u						_		
		2:1 (H: V) and for					Side si	spe for t	Juning	
OR	iii.	Estimate the quan	_			d plaste	ring red	uired ir	a wall	8
		6 m long, 4 m high				Ι	8	1		
		Also calculate the cost if the rate of brickwork is Rs. 300/cu. m. and								
		plastering is Rs. 1	0/sq. m							
0.1		D:00								_
Q.4	i. 						3			
OP	ii. 	r					7			
OR	iii.	What do you mean by depreciation? What are the various methods of determining depreciation? Explain any one briefly.					7			
		determining depre	ciation	: Expiai	n any o	ne brief	1У.			

Q.5	i. ii.	Enlist the methods for inviting tender. Differentiate between the qualitative and quantitative evaluation of tenders.	4 6
OR	iii.	Explain in brief about E-tendering.	6
Q.6		Attempt any two:	
	i.	Discuss types of contracts in detail.	5
	ii.	What are the various objectives and essentials of a valid contract?	5
	iii.	Write short note on:	5
		(a) Defect liability period	
		(b) Retention money	
		(c) Interim payment	

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(d) Liquidated damage(e) Secured advance

Marking Scheme

Quantity Surveying & Estimation (T) - CE3CO32 (T)

Q.1	i) ii) iii) iv) v) vi) vii) viii) ix) x)	 a. Lead b. sq. m. c. Earth Work d. 1/30th of span a. Salvage Value c. Estimation d. Guarantee b. Earnest money deposit c. Defect Liability Period a. e-Signatures 		1 1 1 1 1 1 1 1 1
Q.2	i. ii. iii.	correct definition. each difference. for definition and for characteristics.	2 Mark 1 Mark 1 Mark 4 Mark	2 3 5
OR	iv.	for each type.	1 Mark	5
Q.3 OR	i. ii. iii.	for each method. for data given. for correct formula used. for correct answers. for each calculation of brickwork and plaster in	1 Mark 2 Mark 3 Mark 3 Mark respect to Quantity	2 8
		and Costing.	2 Mark	
Q.4 OR	i. ii. iii.	for each difference. for each method. for definition. for methods. for detailed explanation.	1 Mark for each 1 Mark for each 1 Mark 3 Mark 3 Mark	3 7 7
Q.5 OR	i. ii. iii.	for each method. for each difference. for definition and for detailed explanation.	1 Mark 1 Mark 2 Mark 4 Mark	4 6 6
Q.6	i. ii. iii.	Attempt any two: for each type. each for objective and essentials. for each note	1 Mark 2.5 Mark 1 Mark	5 5 5

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