

- Q.5 i. What do you understand by price, cost and value? Explain different 4 types of 'value' and factors affecting it.
 - ii. Define the term valuation and its purpose. Explain different methods 6 of valuation.
- OR iii. A building costing Rs.7,00,000 has been constructed on a freehold land measuring 100 sqm recently in a big city. Prevailing rate of land in the neighbourhood is Rs. 200 per sqm. Determine the net rent of the property, if the expenditure on an outgoing including sinking fund is Rs. 24,000 per annum. Work out also the gross rent of the property per month.

Q.6 Attempt any two:

- i. What is E-tendering? Describe various forms of BOT and Global 5 tendering.
- ii. How tenders are invited describe various methods of inviting 5 tenders and tendering procedure.
- iii. Define Contract and Explain Types of Contracts. Describe Pre and post qualification of contractors.

Total No. of Questions: 6

Total No. of Printed Pages:4

P.T.O.

Enrollment No.....



Faculty of Engineering End Sem (Odd) Examination Dec-2019 CE3CO15 Quantity Surveying & Estimation

Programme: B.Tech. Branch/Specialisation: CE

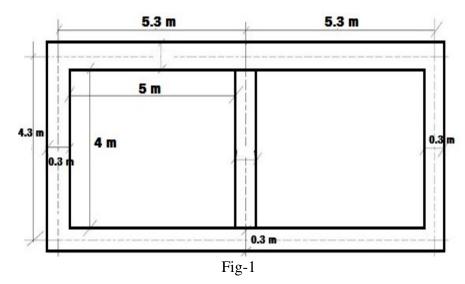
Duration: 3 Hrs. Maximum Marks: 60

Q.1	i.	is requ	ired for preliminary studies of various	1		
		aspects of a work or project.				
		(a) Supplementary Estimate	(b) Plinth Area Estimate			
		(c) Revised Estimate	(d) Abstract Estimate			
	ii.	is the am	nount provided in the estimate and bill	1		
		of quantities for some specia	alised work to be done by a specialised			
		firm; whose details are not kn	nown at the time of preparing estimate.			
		(a) Prime cost	(b) Provisional sum			
		(c) Capital cost	(d) None of these			
	iii.	The brick work is not measur	red in cu m in case of	1		
		(a) One or more than one brid	ck wall			
		(b) Half brick wall				
		(c) Brick work in arches				
		(d) Reinforced brick work				
	iv.	The expected out turn of cem	ent concrete 1:2:4 per mason per day is	1		
		(a) 1.5 m^3 (b) 2.5 m^3	(c) 3.5 m ³ (d) None of these			
	v.	Theis the	region of the pavement section that is	1		
	located directly under the surface course.					
		(a) Sub-base course	(b) Grit			
		(c) Base course	(d) Ballast			
	vi.	While preparing a detailed es	timate	1		
		(a) Area should be measured	correct to 0.01 sqm			
		(b) Volume should be measured correct to 0.01cum(c) Dimension should be measured correct to 0.01 m				
		(d) All of these				

	vii.	Original cost of property minus depreciation		1	
		(a) Book value	(b) Salvage value		
		(c) Reliable value	(d) Obsolence value		
	viii.		general office expenses, rents, taxes,	1	
		=	which are indirect expenses and not		
		productive expenses on the jo			
		(a) Total costs	(b) General costs		
		(c) Overhead costs	(d) Contingencies	1	
	ix.	C			
		(a) Rate list			
		(b) Preliminarie	•		
		(c) A letter of invitation to ter	nder		
		(d) Design drawing		_	
	х.	Among these which is not mentioned in a tender?			
		(a) Sign of authority	(b) Date		
		(c) Designation	(d) None of these		
Q.2	i.	What do you understand by "	DPR' and enumerate its content	2	
Q.2	ii.	What do you understand by 'DPR' and enumerate its content Describe the components of estimates: face sheet, abstract sheet and 3			
	н.	measurement sheet?			
	iii.	Define the term 'estimate'. I	Explain different types of estimate and	5	
		their uses?			
OR	iv.	Write short notes on:		5	
		(a) SOR	(b) Work charge establishments		
Q.3	i.	Explain the meaning and purp	pose of rate analysis?	2	
	ii.			8	
		•	vith 1:6 Cement Sand Mortar for one		
		cubic meter.			
OR	iii.	Workout the rate analysis for	one cubic meter of 1:2:4 RCC work in	8	
		beams.			
Q.4	i.	Differentiate hetween long w	all short wall and centre line method.	3	
√. '	ii.	_	ork for a portion for 320m length from	7	
	111		th of road is 10m, side slopes are 2:1 in	,	

Station	Distance	R.L. of ground	R.L. of formation
Station		(m)	(m)
25	1000	51.00	50.00
26	1040	50.90	
27	1080	50.50	Downward
28	1120	50.80	gradient
29	1160	50.60	of
30	1200	50.70	1in 200
31	1240	51.20	
32	1280	51.40	
33	1320	51.30	

- OR iii. Estimate by centre line method the quantities of the following items of a two roomed building from the given Fig-1 plan and Fig-2 section:
 - (a) Earthwork in excavation in foundation,
 - (b) Concrete in foundation
 - (c) Brickwork in foundation footing
 - (d) Brickwork in superstructure



Marking Scheme CE3CO15 Quantity Surveying & Estimation

Q.1	i.	is required for preliminary	studies of various	1	
		aspects of a work or project.			
		(d) Abstract Estimate			
	ii.	e estimate and bill	1		
		of quantities for some specialised work to be do	ne by a specialised		
		firm; whose details are not known at the time of p	reparing estimate.		
		(b) Provisional sum			
	iii.	i. The brick work is not measured in cu m in case of			
		(b) Half brick wall			
	iv.	The expected out turn of cement concrete 1:2:4 per mason per day is		1	
		(d) None of these			
	v.	Theis the region of the paven	nent section that is	1	
		located directly under the surface course.			
		(c) Base course			
	vi.	While preparing a detailed estimate		1	
	vii.	(d) All of these Original cost of property minus depreciation		1	
	V11.	(a) Book value		1	
	viii.	include general office expension	nses, rents, taxes,	1	
	,	supervision and other costs which are indirect expenses and not			
		productive expenses on the job.			
		(c) Overhead costs			
	ix.	An invitation to tender might not include?		1	
		(a) Rate list			
	х.		1		
		(c) Designation			
Q.2	i.	'DPR'	1 mark	2	
		Content	1 mark		
	ii.	Face sheet	1 mark	3	
		Abstract sheet	1 mark		
		Measurement sheet	1 mark		
	iii.	'Estimate'	1 mark	5	
		Types of estimate	3 mark		
		Their uses	1 mark		
OR	iv.	Write short notes on:		5	
		(a) SOR	2.5 marks		
		(b) Work charge establishments	2.5 marks		

Q.	.3 i.		Meaning	1 mark	2
			Purpose of rate analysis	1 mark	
	ii	i.	Items of work	3 marks	8
			Rate analysis	5 marks	
Ol	R ii	ii.	Items of work	3 marks	8
			Rate analysis	5 marks	
Q.	.4 i.		Long wall short wall	1.5 marks	3
			Centre line method.	1.5 marks	
	ii	i.	L section	1 mark	7
			Formation level with calculation	2.5 marks	
			Formula for earth work	1 mark	
			Earth work cal.	2.5 marks	
Ol	R ii	ii.	Estimate by centre line method the quantities of the	e following items	7
			of a two roomed building from the given Fig-1	plan and Fig-2	
			section:		
			(a) Earthwork in excavation in foundation,	2 marks	
			(b) Concrete in foundation	2 marks	
			(c) Brickwork in foundation footing	1.5 marks	
			(d) Brickwork in superstructure	1.5 marks	
Q.	.5 i.		Define	2 marks	4
			Types	1 mark	
			Factors	1 mark	
	ii	i.	Define the term valuation and its purpose. Explain	different methods	6
			of valuation.		
Ol	R ii	ii.	Valuation	2 marks	6
			Purpose	2 marks	
			Methods	2 marks	
Q.	.6		Attempt any two:		
	i.		E-tendering	1.5 marks	5
			Forms of BOT	2 marks	
			Global tendering.	1.5 marks	
	ii	i.	Tenders	1.5 marks	5
			Methods	1.5 marks	
			Procedure	2 marks	
	ii	ii.	Contract	1 mark	5
			Types of Contracts	1 mark	
			Pre qualification	1.5 marks	
			Post qualification of contractors.	1.5 marks	
