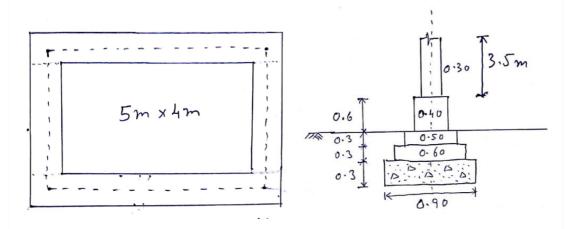


Internal Assessment Test 1– May- 2022 (solution and scheme of valuation)

Sub:	Quantity Survey and contract Management		Sub Code:	17CV81	Branch:	Civi	1
Date:	7/5/2022 Duration: 90 min Max Ma	ırks: 50	Sem/Sec:	VIII – C		marks	
	What is an Estimate? What are the objectives of e Estimate	estimation	? List and ex	xplain the uses of an	10		
	Estimate: An estimate is the anticipated or probable cost of a work and is usually prepared before the construction is taken up. Objective of an estimate: 1. To know the quantity of material 2. To know the labour requirement 3. To know the duration of project 4. To know the project cost.						
	Uses of estimate: 1. Estimate is required for inviting tender. 2. Estimate is required to arrange contract 3. It controls the expenditure during the executio 4. Estimate of labour, material and cost for project 5. Valuation of property on "land and building" to fixation of standard rent 7. Valuation of property for insurance 8. Property disputes 9. Property tax calculations 10. Loan fixation 11. Demolition of structure 12. Land acquisition and compensation. 13.	ct manage	ment	nd mortgage.		CO1 L	
2	Explain the Revised Estimate method and Supplementary estimate.						
	Revised estimate: Revised Estimate is a detailed estimate and is required to be prepared under any one of the following circumstances						
	(i) When the original sanctioned estimate is exceeded or likely to exceed by more than 5%.						
	(ii) When the expenditure on a work exceeds or likely to more than 10%.		1.5%				
	(iii) When there are material deviation from the original the sanctioned amount.	proposal, e	ven though the	cost may be met from		CO1	L2
	The revised estimate should be accompanied by a compa item of works, its quantity, rate and cost under original a reason for variation.						
	Supplementary estimate:						
	Supplementary Estimate is a detailed estimate and is supplement the original works, or when further developm is a fresh detailed estimate of the additional works in add	nent is requ	ired during the	progress of work. This			
	The Abstract should show the amount of the original estimate and the total amount including the Supplementary amount for which sanction is required.						
	Estimate the quantity of the following items and estimate the quantity of the following items and estimate in Earthwork in excavation in ii) Concrete in foundation @ Figure 1:: Given the Plan and section on back side of QP	foundati Rs3000 p	on @ Rs330 er m ³		[30]	CO1	L3



c/c length of long wall = 0.3/2 + 5 + 0.3/2 = 5.3mnumber of long walls = 2 c/c length of short wall = 0.3/2 + 4 + 0.3/2 = 4.3mnumber of short walls = 2

Item no.	Perticulars of item	No.	L	В	Н	Q	Remarks			
1	Earthwork in excavation in foundation									
	Long wall	2	6.2	0.9	0.9	10.04	L=5.3 +0.9/2 + 0.9/2			
	Short wall	2	3.4	0.9	0.9	5.51	L = 4.3 - 0.9/2 - 0.9/2			
					total	15.55m ³				
2	Concrete in									
	Long wall	2	6.2	0.9	0.3	3.35	L=5.3 +0.9/2 + 0.9/2			
	Short wall	2	3.4	0.9	0.3	1.83	L = 4.3 - 0.9/2 - 0.9/2			
					total	5.18 m ³				
3	Brickwork in foundation and plinth									
	Long wall 1st foothing	2	5.9	0.6	0.3	2.13	L = 5.3 + 0.6/2 + 0.6/2			
	2 nd footing	2	5.8	0.5	0.3	1.74	L = 5.3 + 0.5/2 + 0.5/2			
	3 rd footing	2	5.7	0.4	0.3	2.74	L = 5.3 + 0.4/2 + 0.4/2			
	Short wall 1 st foothing	2	3.7	0.6	0.3	1.33	L = 4.3-0.6/2 -0.6/2			
	2 nd footing	2	3.8	0.5	0.3	1.14	L = 4.3 - 0.5/2 - 0.5/2			
	3 rd footing	2	3.9	0.4	0.3	1.87	L = 4.3 - 0.4/2- 0.4/2			
					total	10.45m ³				

ABSTRACT

Item					
no.	particulars of item	quantity	unit	rate	amount
	earthwork in excavation in				
1	foundation	15.55	m3	330	5131.5
	Concrete in foundation and				
2	plinth	5.18	m3	3000	15540
	Brickwork in foundation and				
3	plinth	10.45	m3	2500	26125
				total	46796.5
	add 3% for contingencies				1403.895
	add 2% for work charged				
	establishment				522.5
			grand		
			total		48722.9