

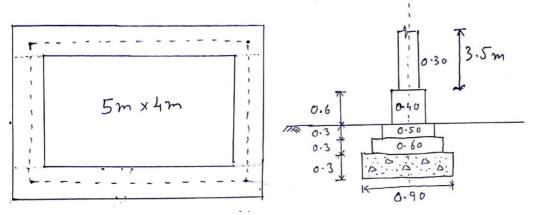
Internal Assessment Test 3–DEC-2022

(solution and scheme of valuation)

Sub:	Quan	tity Survey ar	d Contract M	L anagement		SubCode:	18CV71	Branch:	Civi	1
Date:	26/12/2022	Duration:	90min	MaxMarks:	50	Sem/Sec:	VII–A	Marks	CO	RBT
1	What is an Estimate? What are the objectives of estimation? List and explain the uses of an Estimate. Estimate: An estimate is the anticipated or probable cost of a work and is usually prepared before the construction is taken up. Objectives of estimation: To know the following before the actual construction 1. quantity of material required 2. requirement of skilled and unskilled labour 3. duration of project 4. project cost uses of an estimate: 1. Estimate is required for inviting Tender. 2. Estimate is required to arrange contract. 3. It controls the expenditure during the execution of project. 4. Estimate of labour, material and cost for Project Management. 5. Valuation of property on 'land and building basis' for sale, purchase and mortgage. 6. Fixation of standard rent. 7. Valuation of property for insurance. 8. Used during property disputes. 9. Used to calculate property tax. 10. Used to arrange loan. 11. To estimate demolition cost. 12. During land acquisition to fix compensation cost. 13. To estimate the maintenance and repair cost.						he	CO1	L2	
2	Explain the Rev		te method a	nd Supplementa	ary e	stimate		[10]	CO1	L2
		Revised Estimate sed Estimate is a detailed estimate and is required to be prepared under any one of the following instances								
	(i) When the orig	ginal sanctione	d estimate is e	exceeded or likely	or likely to exceed by more than 5%.					
	(ii) When the exp more than 10%.	penditure on a	work exceeds	or likely to excee	d the	amount of adr	ministrative sanction l	ру		
	(iii) When there a		viation from t	the original propos	sal, ev	en though the	cost may be met from	n		
		quantity, rate					the variations of each			
	(7) Supplementa	ary Estimate								
	supplement the o	riginal works,	or when furth		requ	ired during the	I works are required e progress of work. Thate.			
	The Abstract sh Supplementary a				mate	and the total	amount including t	he		

- i) Earthwork in excavation in foundation @ Rs330 per m³
- ii) Concrete in foundation @ Rs3000 per m³
- iii) SSM (Size Stone Masonry) in foundation and plinth @ Rs2500 per m³
- iv) Brickwork in superstructure @ Rs 3000 per m³

Given the Plan and section on back side of QP



Solution:

Total c/c length of 30cm wall = 2(0.3/2 + 5 + 0.3/2) + 2(0.3/2 + 4 + 0.3/2) = 19.20m No. of Junctions = 0

Item	Perticulars of item	No.	L	В	Н	Q	Remark		
No.	1 01010 01010 01 10011	1,0,				~	110111111		
1	Earthwork in	1	19.20	0.90	0.90	15.55			
	excavation in								
	foundation								
2	Concrete in	1	19.20	0.90	0.30	5.18			
	foundation								
3	SSM (Size Stone Masonry) in foundation and plinth								
	Ist footing	1	19.20	0.60	0.30	3.46			
	IInd footing	1	19.20	0.50	0.30	2.88			
	IIIrd footing	1	19.20	0.40	0.60	4.61			
						10.95m^3			
4	Brickwork in	1	19.20	0.30	3.50	20.16m ³			
	superstructure								

Abstract

s.no	perticulars	quantit y	unit	rate	unit	cost
1	Earthwork in excavation in foundation	15.55	m ³	330	m ³	5131.5
2	Concrete in foundation	5.18	m^3	3000	m ³	15540
3	SSM (Size Stone Masonry) in foundation and plinth	10.95	m ³	2500	m ³	27375
4	Brickwork in superstructure	20.16	m^3	3000	m ³	60480
	_			total		108526.50
	Add 5%					5426.32
	Total cost					113952.82

CO1 L3