Internal Assessment Test 1 – March 2019

Sub:	Quantity Survey and contract Management				Sub Code:	15CV81	Branch:	Civil		
Date:	5/3/2019	Duration:	90 min	Max Marks:	50	Sem/Sec:	VIII – A & B		OBE	

Answer all questions

|		MARKS	CO	RBT
1	Determine the quantities of the following items.			
(a)	C/C distance of long wall and short wall (or) total c/c length of wall and junctions	[05]	CO1	L1
(b)	Earthwork in excavation	[05]	CO1	L3
(c)	Lime concrete in foundation	[05]	CO1	L2
(d)	First class brickwork in foundation	[10]	CO2	L2
(e)	Damp proof course	[05]	CO2	L2
(f)	First class brick work in superstructure	[20]	CO1	L1

FIG -1
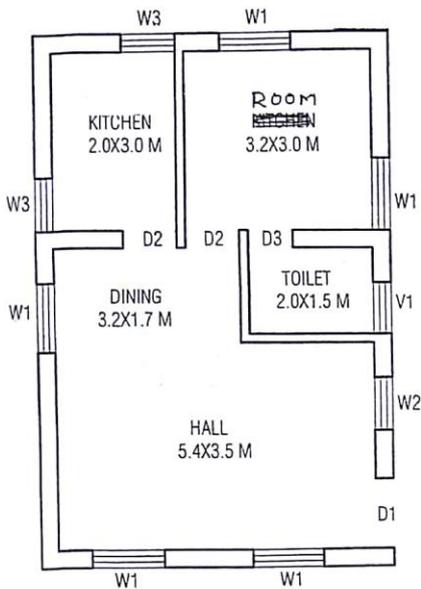
PLAN - GROUND

RESIDENTIAL BUILDING.
READ ALL DIMENSIONS
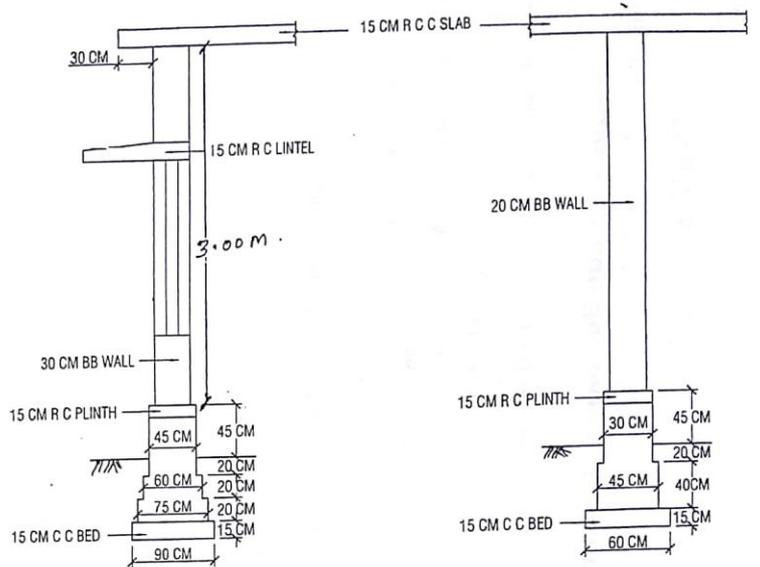
TYP - C / S OF 30 CM WALL

TYP - C / S OF 20 CM WALL

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SOLUTION

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								Marks
Total c/c length of 30cm wall =								
2*(.15+3.5+.2+1.5+.3+3+.15)+3*(.15+5.4+.15) =				**34.7**				2
No. Of junctions = **2**								1
Total c/c length of 20cm wall =								
(.15+3+.15)+(.15+1.5+.1)+(.1+2+.15)=				**7.3**				1
No. Of junctions = **4**								1

item no.	perticulars of item	no.	L	B	H	Q	remarks	
1	**earthwork in excavation**							
	30cm wall	1	33.8	0.9	0.75	22.82	L=34.7-2*(.9/2), H=.15+.2+.2+.2	2
	20cm wall	1	5.5	0.6	0.75	2.48	L=7.3-4*(.9/2)	2
						25.29		1
2	**lime concrete in foundation**							
	30cm wall	1	33.8	0.9	0.15	4.56	L=34.7-2*(.9/2)	2
	20cm wall	1	5.5	0.6	0.15	0.50	L=7.3-4*(.9/2)	2
						5.06		1
3	**First class brickwork in foundation**							
	30cm wall STEP I	1	33.95	0.75	0.2	5.09	L=34.7-2*(.75/2)	1
	STEP II	1	34.1	0.6	0.2	4.09	L=34.7-2*(.6/2)	1
	PLINTH	1	34.25	0.45	0.65	10.02	L=34.7-2*(.45/2)	1
	20cm wall STEP I	1	5.8	0.45	0.2	0.52	L=7.3-4*(.75/2)	2
	STEP I	1	6.1	0.45	0.2	0.55	L=7.3-4*(.6/2)	2
	PLINTH	1	6.4	0.3	0.65	1.25	L=7.3-4*(.45/2)	2
						21.52		1
4	**Damp proof course**							
	30cm wall	1	34.25	0.45		15.41	L=34.7-2*(.45/2)	1
	20cm wall	1	6.4	0.3		1.92	L=7.3-4*(.45/2)	1
	deduction D1	1	1.2	0.45		0.54		
	D2	2	0.9	0.45		0.81		
	D3	1	0.75	0.45		0.34		2
						15.65		1
5	**Ist class brickwork in superstructure**							
	30cm wall	1	34.4	0.3	3	30.96	L=34.7-2*(.3/2)	2
	20cm wall	1	6.7	0.2	3	4.02	L=7.3-4*(.3/2)	3
	DEDUCT							

	D1	1	1.2	0.3	2.1	0.76		1
	D2	2	0.9	0.3	2.1	1.13		1
	D3	1	0.75	0.3	2.1	0.47		1
	W1	5	1.2	0.3	1.5	2.70		1
	W2	1	0.9	0.3	1.5	0.41		1
	W3	2	0.9	0.3	0.9	0.49		1
	V1	1	0.9	0.3	0.6	0.16		1
	LINTEL OVER							
	D1	1	1.5	0.3	0.15	0.07	bearing 15cm	1
	D2	2	1.2	0.3	0.15	0.11		1
	D3	1	1.05	0.3	0.15	0.05		1
	W1	5	1.5	0.3	0.15	0.34		1
	W2	1	1.2	0.3	0.15	0.05		1
	W3	2	1.2	0.3	0.15	0.11		1
	V1	1	1.2	0.3	0.15	0.05		1
						28.09		1