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USN							15CV54
		Fifth Semeste				nber 2018	
	CO	MDUTED AU		NGINEERING		DDAWA	NG
Гіте:	3 Hours	MPUTER AII	JED BUILD	ING PLANT	VING ANI		ax. Marks: 80
							wit. 111411115. 00
	Note: A	Answer any TV	WO full ques	tions. Assum	e any miss	ing data su	itably.
Q1.	Draw a	a cross section	of a S.S. M	Masonry four	ndation to	be provid	ed for a load
	bearing	g wall 300mr	n thick in l	Burnt Brick	Masonry	in supers	tructure of a
		tial building. U				All the	7
		Width of foun				\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	*
		Depth of foun		GL = 1.20m		. >	
		Width of PCC	A CONTRACTOR OF THE PROPERTY O		4	4	
	d.	Thickness of I	PCC in 1:3:6	= 75mm.	At h	S. 10	
	e.	Width of first	footing above	e PCC = 1.05	m		
	f.	Depth of first	footing above	PCC = 0.37	5m		
	g.	Width of seco	nd footing =	0.90m	4		
		Depth of seco			700		
		Width of third	_				
		Depth of third	_			A.	
		Width of plint	_				
		Depth of plint					
		Thickness of I			4	6.7	(30 Marks)
		111101111000 011	71 O III 1.2. (OR			(50 Marks)
Q2.	Prepare	e a working dr following deta	rawing for an	isolated rec	tangular R	CC colum	n and footing
	mas the	Tollowing deta	1115	4		4.0	lbu.
	Column	n size: (400 x 6	600) mm.	a l		(Table	*
		footing: 2m x		n thickness 4	50mm.		
	Depth o	of foundation b	elow $GL = 1$.5m			
					1		
	Thickne	ess of PCC bed	1 in 1:3:6 = 7	5mm			
				7			
		Details of reinforcement:					
	Column: #8 - 16φ as main bars with 2L - 8φ @ 150 c/c lateral ties Footing: Longer direction steel - 12φ @ 130 c/c						
	Shorter	direction steel	- 124 @ 220	2φ @ 130 c/c			(20 Manlan)
	SHOTTEL	direction steel	- 12ψ (W 220	C/C			(30 Marks)
23.	Line di	agram of sing	le storey resi	dential buildi	ing is give	n in figure	Q3. Draw to
			services.				
			and sanitary s	ervices			(50 Marks)
23.	Depth of Height Thickner Column Footing Shorter Line discale the	of foundation be of column to be ess of PCC become of reinforcements: #8 - 16¢ as regular direction steel agram of singular followings: a. Electrical steel	telow GL = 1 te shown above the shown above the shown above the shown above tent: main bars with tion steel - 12 -12ϕ @ 220 the storey residues	26 @ 130 c/c dential buildi	150 c/c late	n in figure	

Line diagram of single storey Hospital building is given in figure Q4. Draw to scale the followings:

a. Plan at sill.

b. Front elevation.
c. Section along XX. Q4.

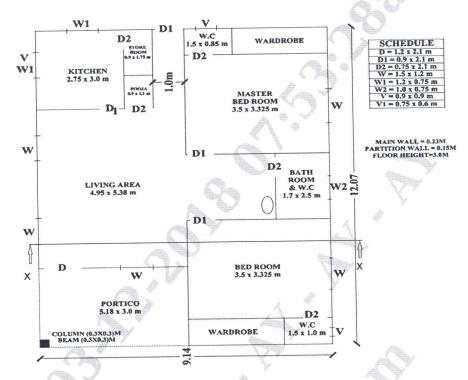


Figure Q3. Line diagram of single storey residential building

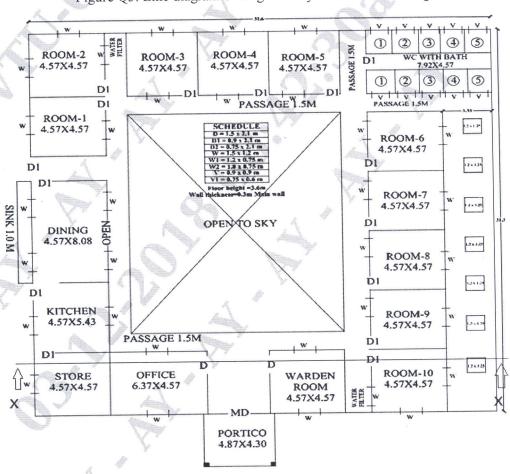


Figure Q4. Line diagram of single storey Hospital building