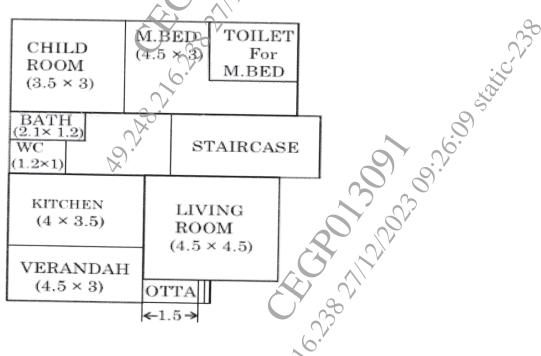
Total No	o. of Que	stions: 8]	(	30 5	SEAT No. :	
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			[6179]-20	6		
		<b>S.E.</b> (	Civil Engir	neering)		
BUII	LDIN(	GTECHNOLO	GY&ARC	HITECT	URAL PLANI	NING
		(2019 <b>Patter</b>	n) (Semest	er-III) (20	01001)	
Time: 2	½ Hours	1 2 3	3.		[Max 1	Aarks : 70
		he candidates:			[17]43.17	141145.70
1)		r Q1 or Q2, Q3 or Q				
2)		iagrams must be di			•	
3)	- /	es to the right side i	_	iarks.		
<i>4</i> ) <i>5</i> )		e suitable data if n			000	
5) Use of scientific calculator is			or is unoweu.			
		6.				
<b>Q1</b> ) a)	Defi	ne flooring. Enlist c	different types	of flooring	. Explain marble	flooring.
				.0	( )	[6]
b)	Enlis	st different types of	f roofs. Give	the function	nal requirements	of good
	roofi	ng materials. Drav	w the sketch	of queen po	ost roof truss.	[6]
c)		ain briefly the follo				ows. [5]
	i)	Function or purpo				
	ii)	Location	(A)			
	iii)	Size				0-
	,	C	OR			3
<b>Q2</b> ) a)	Wha	t is the factor affec	ting the selec	tion of floo	ring materials?	.[6]
<b>b</b> )		ain with proper ske				[6]
c)	-	st types of doors ar	V		ng door.	<b>(5)</b>
,			1			2, 1
<b>Q3</b> ) a)	It is 1	proposed to constr	uct a bungalo	w for a doc	ctor the followin	g are the
20, 40,	_	rements for accom	_	,, 101 <b>a</b> 600	3	[13]
	i)	A Drawing Hall-2			7, 8,	[10]
	ii)	Living Room- 25	•	Q	2	
	iii)	Kitchen cum dinii	-	Same		
	,			Squi.		
	iv)	Guest Room -20	_	( )	6	
	v)	Children's Room	-	6.		
	vi)	Master bedroom -	-			
	vii)	Doctors Room - 2	20 Sqm.	80.		

- viii) Provide adequate verandah, passage, sanitary units, staircase etc. as per bye- laws. Consider floor to floor height 3.0M, Size of Riser 150mm. The structure planned as G+1 RCC structure and draw line plan for the same.
- b) Calculate number of risers and tread in each flight for dog legged stair, floor to floor height is 3.3 m and riser is 150mm. Show with a neat sketch. [5]

OR

- Q4) a) Write a Short note on Green Building? Enlist various Rating System.[5]
  - b) A line plan of a residential building is shown in following figure 1. Draw detailed floor plan with 1:50 or suitable scale. Use the following data:[13]
    - i) All external wall thickness 230mm
    - ii) All internal wall thickness 150mm
    - iii) RCC Frame structure
    - iv) Floor to floor height -3.2
    - y) Plinth Height -0.6
    - vi) Toilet for M.Bed -1  $.2 \times 2$ .
    - vii) All dimensions are in meters



**Q5**) a) It is proposed to construut a Computer Training Institute with the following requirements: [13] i) Reception: 20 Sqm. Administrative office: 25 Sqm ii) Cabin for head of the institute: 25 Sqm iii) Seminar Hall (2Nos): 60 sqm each iv) Class room (3 Nos): 50 Sqm each v) Computer lab(2 Nos): 70 Sqm each vi) Store Room. 15 Sqm vii) viii) Staff room with attached toilet: 30 Sqm All passage: 2 m wide ix) Sanitary units: as per standards  $\mathbf{x}$ Assume any suitable data if necessary Draw to scale of 1:50 or suitable - line plan showing location of (iix doors and windows Enlist the functional requirements and salient features of engineering Student b) For hostel building. [5] Design a single storey hostel building and draw only line plan with the **Q6**) a) following data [13] Number of students i) Fifteen rooms are two seated with 7.5 sq. m area per student and ii) ten single seated with 9.5 sq. m area. Recreation room approx. area 35 Sqm iii) Kitchen-9.5 Squo iv) v) Office space approx. area 12 Sqm vi) Store room approx. area 10 Sqm vii) Dining - 3 Sqm / student viii) Passage -1.8m wide Verandah, passage, staircase, W.C. and Bath etc. of suitable size ix) should be provided. Show North direction and mention scale. Mention the functional requirements with dimensions for a School building. b) [5]

<b>Q</b> 7)	a)	Explain in detail MRTP 1966 and RER.A			
	b)	What are different acoustical defects? Explain any one in detail.	[6]		
	c)	Explain in detail 7/12 abstract and describe different village forms.	[5]		
<b>Q</b> 8)	a)	Elaborate the following terms:  i) Fire load  ii) Disaster Management  iii) Evacuation Time	[6]		
	b)	Evalois 'One Dine' plumbing system	[6]		
	c)	Explain need of earthquake resistance structure	[5]		
[617]	<b>79</b> 1-	Explain need of earthquake resistance structure  And the structure  An			
[617	79]- <i>2</i>	206			