Tota	l No	of Questions : 8] SEAT No. :	
PA	-11	79 [Total No. of Pages : 2	
S.Y. (Civil Engineering)			
BU	ILI	DING TECHNOLOGY AND ARCHITECTURAL PLANNING	
		(2019 Pattern) (Semester - III) (201001)	
Time	2:21	[Max. Marks: 70	
Instr	ucti	ons to the candidates:	
	1)	Attempt Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
	<i>2</i>)	Figures to the right indicate full marks.	
	3)	Draw neat figures wherever necessary.	
	<i>4</i>)	Assume necessary data.	
	<i>5</i>)	Use of scientific calculator is allowed.	
Q 1)	a)	Enlist various types of fixtures for doors and explain anyone with a	
		neat sketch. [6]	
	b)	State the types of flat terraced roofing and explain any one of them.[6]	
	c)	Explain in brief, the following: [6]	
		i) Timber Linter	
		ii) Stone lintel	
		OR	
<i>Q2</i>)	a)	Draw a neat labeled sketch of semicircular - arch and show:	
		i) Key stone	
		ii) Crown	
		iii) Springing line	
	b)	Enlist any four types of floor finishes and explain mosaic flooring.[6]	
	c)	Explain swing door with the help of a sketch. [6]	
Q3)	a)	Enlist various types of residential buildings and explain any one ir	
		detail. [6]	
	b)	Explain steps for design of dog legged staircase. [6]	

Write a short note on rating system for green building.

OR

c)

[5]

Q4) a)	What are the fundamental requirements of residential building? [6]
b)	What do you understand by Leadership in Energy and Environmental
	desing (LEED)? [6]
c)	What are the salient features of Green Building? [5]
Q 5) a)	A hospital is to serve a population of 20000 and is to be designed on
	a site measuring 100m × 150m. Separate ward for men and women,
	W.C.s, nurses rooms, etc are to be provided and details have to be
1. \	worked out. Draw a line plan to a suitable scale. [12]
b)	What are the salient features of engineering student's hostel building?
	[6]
0()	OR OR
Q6) a)	Design a single storeyed restaurant building on a highway. The
[following units are to be provided: [12]
	Entrance and general stationery shop 45 sqm
	Dining Hall 300 sqm
	Service 35 sqm
	Kitchen 45 sqm
	Store room 18 sqm
	Cloak room for keeping baggage 15sqm
	W.C For gents 2 nos
	W.C for ladies 2 nos
	Draw to a scale 1:50 or suitable
	i) Line plan showing locations of doors and windows.
b)	What are the salient features of vegetable market building. [6]
Q7) a)	Write a short note on land use zoning and mention the requirements of
	each. [6]
b)	Compare fire resisting properties of concrete and stone. [6]
c)	Explain with sketches, wind and stack effect [5]
	OR
Q8) a)	What do you understand by RERA Act? [6]
b)	What are the considerations for natural lighting in a residential building?
,	[6]
c)	Explain with a neat diagram winter air conditioning. [5]
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