	. of Questions : 8] SEAT N	
PA-117	<i>-</i>	otal No. of Pages : 2
	[5925]-201	
	S.Y. (Civil Engineering)	
BUILI	DING TECHNOLOGY AND ARCHITECTU	RAL PLANNING
	(2019 Pattern) (Semester - III) (201	001)
Time: 2½ Hours]		[Max. Marks : 70
Instructi	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) 4)	Draw neat figures wherever necessary. Assume necessary data.	
<i>.,</i> 5)	Use of scientific calculator is allowed.	
,) *
Q1) a)	Enlist various types of fixtures for doors and exneat sketch.	plain anyone with a [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	
Q2) a)	Draw a negotabeled sketch of semicircular - arch and	l show: [6]
	i) Key stone	
	ii) Crown	
	iii) Springing line	
b)	Enlist any four types of floor finishes and explain mo	osaic flooring.[6]
c)	Explain swing door with the help of a sketch.	[6]

OR

Write a short note on rating system for green building.

Explain steps for design of dog legged staircase.

Q3) a)

b)

c)

detail.

Enlist various types of residential buildings and explain any one in

[6]

[6]

[5]

Q4) a) b)	What are the fundamental requirements of residential building? [6] What do you understand by Leadership in Energy and Environmental		
·	desing (LEED)?		
c)	What are the salient features of Gre	en Building?	[5]
Q5) 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 b worked out. Draw a line plan to a suitable scale. [12]		
b)	What are the salient features of engineering student's hostel building? [6]		
	OR		_
Q6) a)	Design a single storeyed restaurant building on a highway. The following units are to be provided: [12]		
	Entrance and general stationery sho	p 45 sqm	[14]
-	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		
1.	each. [6]		
b)	Compare fire resisting properties of concrete and stone.		[6]
c)	Explain with sketches, wind and state OR	ick effect.	[5]
Q8) a)	What do you understand by RERA	Act?	[6]
Q0) a)			
0)	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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