Seat No:		Enrollment No:		
	PARUL UNIVERSITY FACULTY OF ARCHITECTURE& PLANNING B.Arch./ B. ID. Winter 2019-20Examination			
•		Date: 06/12/2019 Times: 10:00 am to 12:0 Total Marks: 50	00 pm	
	ctions: questions are compulsory.			
	res to the right indicate full marks.			
	ke suitable assumptions wherever required.			
4. Dra	w suitable sketches wherever required.			
Q.1	Demarcate the Structural Grid/ Pattern (Scale 1:200) and Sketch / Draw the Wall Section, Size of Columns, Beams & Slab Depth with respect to the material used for construction according to the Site and Context (Scale: 1: 20). Choose any of the following climate out of the following three: Jaisalmer (Hot & Dry), Leh (Cold & Dry) & Trivandrum (Warm & Humid) Please refer the Figure No. 01.		(10)	
Q.2	Attempt any five out of the following six: (suitable sketches)	•	(20)	
1)	Filling the Blanks:			
	 a) % of reduction in imposed load is done for constructing over the construction of th	Living & Bed Room.		
2)	Define the Following with relevant sketches:			
	a) Spatial Firb) Lateral Force Systemc) Trussd) Radial Grid			
3)	Differentiate any one of the following:			
	a) Structural Design & Structural Analysisb) Determinate & Indeterminate Structure.			
4)	What is truss? Enlist and Explain the various types of truss.			
5)	Draw / Sketch the demarcation of Load Transfer System (Load Accumulatio Foundation as a Brick – Reinforced Concrete Cement Composite Building Modern Control of the Property o	laterial.		
6)	State the difference between Regular & Irregular Grids along with releven	ant sketches and one huilt		

- Brief any five types of spatial composition of Structural Grids / Patterns out of the following six with (10) Q.3 necessary sketches.
 - 1. Irregular Grids

structure for each of them.

- 2. Contrasting Orientation
- 3. Tartan Grids
- 4. Large-scale Spaces
- 5. Radial Grids
- 6. Shared Grids
- **Q.4** Answer the following: (any two)

(10)

- 1. Explain the Fundamentals of Spanning System and give a briefexplanation on One Way & Two Way Spanning with necessary sketches.
- 2. Enlist and Explain the fundamentals importance of Grid Modification with necessary Sketches.
- 3. Explain the Structural Principals with respect to Architecture (Conceptual, Experimental and Contextual Ordering of Architecture with one relevant examples and sketches.

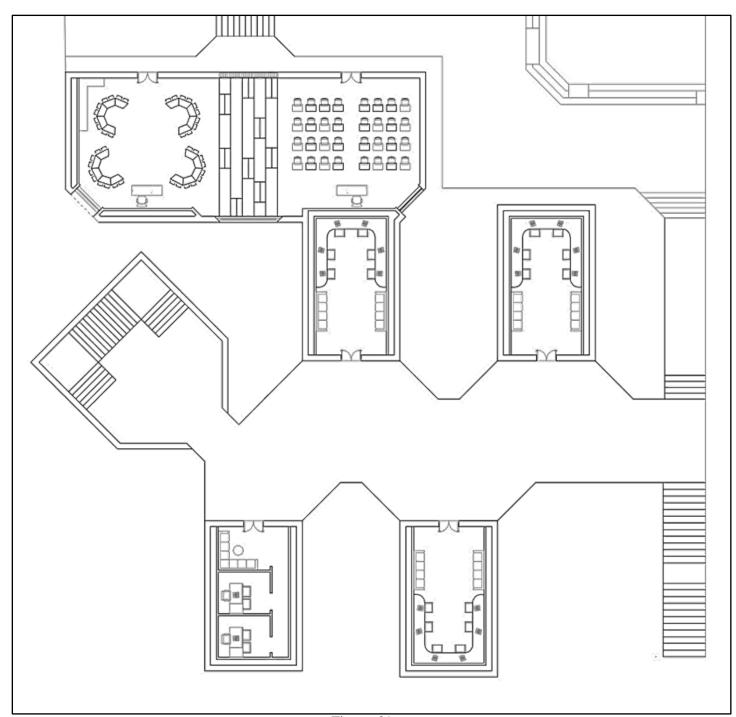


Figure: 01