Enrollment No:\_\_\_\_\_

## PARUL UNIVERSITY FACULTY OF ARCHITECTURE & PLANNING

	B.Arch. Winter 2019-2				
Semester: 7 Subject Code: 01101402 Subject Name: Advance Building Materials & Construction			Date: 09/12/2019	Time: 02:00 pm to 05:00 pm	
	ctions:				
	questions are compulsory.				
	rres to the right indicate full marks.				
	te suitable assumptions wherever required. w suitable sketches wherever required.				
4. DIa	» suitable sketches wherever required.				
Q.1	Explain Long Span Structures and High-Rise Structures with suitable examples. Detail out their construction techniques and special elements with relevant sketches.			(10)	
Q.2	Attempt any five out of the following six:			(20)	
1)	Write the importance of the building finishes used in Interior & Exterior surfaces of building.				
	Explain the Following: (any four)				
_,	a) Partition wall & Paneling	(b	Structural Glazing		
	b) False Ceiling & False Flooring		Under—Deck Insulation		
	c) External Cladding of Frames Structure	,			
3)	Write Short Note on: Bundled frame tube structure in H	High	rise with sketches.		
4)		-			
	a) Steel Ropes	d)	Synclastic		
	b) Ball Joints	,	Spider Joints		
	c) Travellators				
5)	Explain the methods of Installation and techniques of construction for the following: (any two)				
	1. Service Duct		A.C. Duct		
	2. Electrical Duct		Lift Well		
6)	Zaprani vario do componento accurro internari minores or une cantang.				
Q.3	Write a Short Note on: (any five)			(10)	
	1. Tensile Structure		Space Frame		
	2. Free Form Shell Structure		Geodesic Dome		
0.4	3. Role of Purlins		Long Span structures (RRC & Steel)	(10)	
Q.4	a) Explain the building behavior during earthquake and its retrofitting analysis.				
	b) Advantages and Disadvantages of Long Span Stru	cture	S.		
	Or			(10)	
Q.4	a) Explain the construction process of swimming pool and enlist the various types of swimming pools. Draft the calculation of water capacity in gallon.				
	b) Justify how Pre-cast construction techniques are different from other construction technique.				

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