PARUL UNIVERSITY FACULTY OF ARCHITECTURE AND PLANNING

B.Arch./ B.ID Winter 2019-20 Examination

B.Arch./ B.ID Winter 2019-20 Examination			
Semester: 1		Date: 16/12/2019	
Subject Code: 01101102		Time: 2:00 pm to 5:00 pm	
Subject Name: Building Materials & Construction Technology -I Total Marks: 50			
	ctions:		
	questions are compulsory.		
	ares to the right indicate full marks.		
	ke suitable assumptions wherever required.		
4. Dra	w suitable sketches wherever required.		
Q.1	What is Brick Bond? Enlist various types of brick bonds. And draw the eleva	tion. plan &	(10)
X -1	isometric view of Flemish bond.	, p	(10)
Q.2	Answer any five out of the following six:		(20)
) Define the following: - i) Pointing. ii) Lintel iii) Stretcher iv) Mortar		
2) Explain the following: i) Rammed Earth technique. ii) Hand Wash test			
3) Write short note on mud as building materials.			
) Differentiate the following with necessary sketches		
-	i. Sympodial Bamboo vs. Monopodial Bamboo		
	ii. Brick Masonry vs Mud Construction.		
5) Sketch the following:		
L	i) Flat arch, ii) Bullnose brick iii) Beveled Closer iv) Rat trap,		
6) Fill in the blanks:		
Ū	i is the highest wedge-shaped piece in a masonry arch.		
	ii. A mixture of cement, sand and water used in a masonry that acts as a bond	ling agent is called	
	in remixture of cement, suite and water used in a masoning that acts us a bolt	ing agent is called	
	iii. Very fine form of sand in which you cannot see individual grains is know	n ac	
	iv. The Traditional brick size ismm x 11.4 mm xmm.	II do	
Q.3	Explain the any five out of the following six:		(10)
Q.5	1. English bond.		(10)
	2. Flemish bond.		
	3. Define: Header, Stretcher, Quoin, Closer		
	4. Sketch any four types of Bamboo cuts for Bamboo Construction.		
	5. Explain Adobe technique in mud construction.		
0.4	6. Explain Flint Rubble masonry.		(10)
Q.4	Answer any two out the following three.		(10)
1) Define Arch. Sketch any four types of arches.			
) Explain different methods of Mud Construction with Sketches.	2	
3) What are the advantages and disadvantages of bamboo as a building material	?	