Seat No:	Enrolment No:

PARUL UNIVERSITY

FACULTY OF ARCHITECTURE

B.Arch/ B.ID Summer 2018-19 Examination

Sub	pester:1 Date:22/04/2019 ject Code: 01101102 Time: 02:00 am to 05 ject Name: Building Material and Construction Technology - I Total Marks: 50	5:00 pm	
Insti	ructions:		
1.	All questions are compulsory.		
2.	Figures to the right indicate full marks.		
3.	suitable assumptions wherever required.		
4.	Draw suitable sketches wherever required.		
Q.1	Explain in brief: What do you understand by brick bonds? Draw or Sketch the elevation, plan (odd & even courses) and isometric view of 1½ brick thick English Bond.	(10)	
Q.2	Answer briefly (any 5)	(20)	
	a. Fill in the blanks:	` /	
	 i. Very fine form of sand in which you cannot see individual grains is known as ii. The Traditional brick size ismm x 11.4 mm xmm. iii. A horizontal structural member that supports the load over an opening such as door or window is called 		
	iv. In masonry, stones are either undressed or roughly dressed.		
	indsomy, stones are either undressed of roughly dressed.		
	b. Differentiate the following with necessary sketchesi. Sympodial Bamboo vs. Monopodial Bamboo		
	ii. Header bond vs. Stretcher bond		
	c. Define the terms:		
	i) Keystone ii) Mortar iii) Course iv) Igneous rocks		
	d. Sketch the following: (i) Westle and Doub ii) Quarter Quaer Claser iii) Pavelled Claser iv) Mitted Claser		
	i) Wattle and Daub ii) Quarter Queen Closer iii) Bevelled Closer iv) Mitred Closere. Explain the following:		
	i) Cob construction ii) Rammed Earth technique		
	f. Write a short note on the composition of good Brick Earth.		
Q.3	Answer the following in brief: (Any 5)	(10)	
C	a. Sketch any four types of Bamboo cuts for Bamboo Construction.	(-)	
	b. Enlist types of Rubble masonry and Ashlar masonry.		
	c. Explain Biscuit test and Hand wash test for mud construction.		
	d. Define: Header, Stretcher, Quoin, Closer		
	e. Explain Adobe technique in mud construction.		
	f. Explain Flint Rubble masonry.		
Q.4			
	a. Enlist and explain the classification of rocks and list the types of stones.		
	b. Define Arch. Sketch any four types of arches. What is Overwing of Stones? Explain different methods of Overwing		
	c. What is Quarrying of Stones? Explain different methods of Quarrying.		