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

## PARUL UNIVERSITY

## FACULTY OF ARCHITECTURE & PLANNING

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

Semester: 2Date: 13/05/2019Subject Code: 01101152Time: 10:00 am to 1:00 pSubject Name: Building Materials & Construction Technology -IITotal Marks: 50			om	
<ul> <li>Instructions:</li> <li>1. All questions are compulsory.</li> <li>2. Figures to the right indicate full marks.</li> <li>3. Make suitable assumptions whenever required.</li> <li>4. Draw suitable proportionate sketches whenever required.</li> </ul>				
Q:1	What are Brick Arches? Enlist and Draw all types of brick arches.		(10)	
Q:2	Ansv (a)	<ul> <li>ver any 05 out of 06 the following</li> <li>Define the following : (Any 5)</li> <li>1. Timber Boards</li> <li>2. Tiles</li> <li>3. ACP panels</li> <li>4. L Junction</li> <li>5. Brick Masonry</li> <li>6. Arches</li> </ul>	(20)	
	(b)	Draw a plan of both courses T junction of English Bond having one and half brick thick wall. Mention the necessary terms.		
	(c) (d) (e) (f)	<ul> <li>Explain in brief the properties of Timber.</li> <li>Fill in the blanks: <ol> <li>are the joints used to increase the length of member.</li> <li>are two dimensionally curved beam constructions for supporting load between two points of support over an opening.</li> <li>are two dimensionally curved beam constructions for supporting load between two points of support over an opening.</li> <li><u>is a type of flat panel that consist of two thin aluminium sheets bonded to a non – aluminium core.</u></li> <li><u>is a material that is typical hard, opaque, shiny, and has good electrical and thermal conductivity.</u></li> <li><u>is a liquid substance used for providing a protective or decorative surface coating, consisting of a pigment and a binder which sets or is treated to form a resistant film.</u></li> </ol> </li> <li>What is Glass? Explain the uses of Glass as a construction material.</li> <li>Describe the process of Seasoning of Timber.</li> <li>Define Timber Truss. Explain &amp; sketch the following (anyone):</li> <li>A. King Truss. B. Queen Truss.</li> </ul>		
Q:3	• · · ·		(10)	
	(a)	Define Brick Foundation. Enlist and Explain the types of Brick Foundations. Sketch the supporting sketches.		
	(b)	Explain the Lengthening joints & Widening joints. Sketch any two lengthening and widening joints.		

- **Q:4** Answer the following:
  - (a) What is Paint? Give uses of Paint. Enlist the various types of paints according to its usability.
  - (**b**) Explain in brief: (any Five)
    - 1. T Junction
    - 2. Varnish
    - 3. Glass
    - 4. Tiles
    - 5. Mortise joints
    - 6. Lengthening joints