Seat No:	Enrollment

## PARUL UNIVERSITY FACULTY OF ARCHITECTURE

## **B.Arch, Summer 2016-17 Examination**

Semester: 2 Date: 22/05/2017

**Subject Code: 01101152** Time: 10:00 am to 1:00 pm

**Subject Name: Building Materials & Construction Technology -II Total Marks: 50** 

## **Instructions:**

- 1. Each section carries 25marks.
- 2. Q1 and Q2.a are compulsory questions of each section.
- 3. Q2.b has sub optional questions.
- 4. Only one question has to be attempted between Q3 and Q4.
- 5. Figures to the right indicate full marks.
- 6. Write section-A, section-B on separate answer sheets.

	SECTION: A	
Q:1	What are Brick Arches? Enlist and Draw types of brick arches.	(10)
Q:2	(a) Define the following: (Any 5)  1. Timber Boards 2. Tiles 3. ACP panels 4. L & T Junction 5. Brick Masonry 6. Arches	(05)
Q:2	(b) Draw a plan of both courses L junction of English Bond having one and half brick thick wall. Mention the necessary terms.	(05)
OR		
Q:2	(b) Explain in brief the properties of Timber.	(05)
Q:3	Fill in the blanks:	(05)
	<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> </ol>	
	3 is a type of flat panel that consist of two thin aluminium sheets bonded to a non – aluminium core.	
	4 is a material that is typical hard, opaque, shiny, and has good	
	electrical and thermal conductivity.	
Q:4	5 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. What is Glass? Explain the uses of Glass as a construction material.	(05)
SECTION: B		
Q:1	Define Brick Foundation. Enlist and Explain the types of Brick Foundations. Sketch the supporting sketches.	(10)
Q:2	(a) Explain the Lengthening joints & Widening joints. Sketch any two lengthening and widening joints.	(05)
Q:2	(b) Describe the process of Seasoning of Timber.	(05)
	OR	
	(b) What is Paint? Give uses of Paint. Enlist the various types of paints according to its usability.	(05)
Q:3	Explain in brief: (Any Five)	(05)
	1. Paints 4. Floor Tiles	
	2. Varnish 5. Mortise joints	
Q:4	3. Glass 6. Lengthening joints  Define Timber Truss. Explain & sketch the following (any one):	(05)
<b>V.</b> 7	A. King Truss.  B. Queen Truss.  B. Queen Truss.	(03)