

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE
B.Arch./B.ID Winter 2017-18 Examination

Semester: 2**Subject Code: 01101152****Subject Name: Building Materials and Construction Technology-II****Date: 26/12/2017****Time: 10:00 am to 1:00 pm****Total Marks: 50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions whenever required.
4. Draw suitable sketches whenever required.

Q.1 Draw a plan of both odd and even course of a T junction, having Flemish Bond as external wall of two brick thick and English bond as internal wall of one and half brick thick. (10)
Mention all the terms in it.

Q.2 Attempt any five: (20)

1) Fill in the blanks:

1. _____ are the joints used to increase the length of member.
2. _____ 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.
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.

2) Define Brick Arches. Enlist and Draw any two types of brick arches.

3) Enlist and Explain the various Construction Techniques of Timber.

4) Explain the uses of Glass as a construction material.

5) Explain in brief the properties of Timber.

6) Enlist the various types of bearing joints. Draw at least one of each type.

Q.3 Explain the following in brief: (Any five) (10)

1. Distemper.
2. Varnish.
3. Glass.
4. Tiles.
5. Mortice joints.
6. Timber board.

Q.4 Answer any two: (10)

- 1) Explain the manufacturing process of tiles.
- 2) Define Timber Truss. Explain & sketch the following (any one) :
A. King Truss. B. Queen Truss.
- 3) Explain timber boards as Construction materials.