

Seat No: _____

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ARCHITECTURE
B.arch, LD, Winter 2016 - 17 Examination

Semester: 2

Subject Code: 01101152

Subject Name: Building Materials & Construction Technology -II

Date: 24/12/2016

Time: 10:00 am to 1:00 pm

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 in each section.
5. Figures to the right indicate full marks.
6. Write section-A, section-B on separate answer sheets.

SECTION - A

- Q.1** Draw a plan of both odd and even course of T junction, having Flemish Bond as external wall of two brick thick and English bond as internal wall of one and half brick thick. Mention its all terms. **(10)**
- Q.2 (a)** Enlist and Explain the various Construction Techniques of Timber. **(05)**
- Q.2 (b)** What are ACP panels? Enlist and explain the various types of ACP panels. **(05)**

OR

- Q.2 (b)** Draw a plan of both courses of right angled corner junction (L junction) of English Bond having one and half brick thick wall. Mention the necessary terms. **(05)**
- Q.3** Enlist the various types of Timber Joinery. Explain and Draw any two typologies of Joinery. **(05)**
- Q.4** Define Brick Foundation. Enlist and Explain the types of Brick Foundations. Sketch the supporting sketches. **(05)**

SECTION - B

- Q.1** What are Brick Arches? Enlist minimum eight types of brick arches. (Draw/ Sketch any four type) **(10)**
- Q.2 (a)** Explain the following: (any two) **(05)**
1. Market forms of Timber.
 2. Conversion of Timber.
 3. Seasoning of Timber.
- Q.2 (b)** What are timber boards? Enlist & Explain the various types of Timber Boards. Explain timber boards as Construction materials. **(05)**

OR

- Q.2 (b)** Explain Timber Floors. Draw the Plan, Section & Details of construction in timber floor First Floor. Indicate all terms. **(05)**
- Q.3** Explain in brief: (Any Five) **(05)**
1. Paints
 2. Varnish
 3. Glass
 4. Tiles
 5. Mortice joints
 6. Lengthening joints
- Q.4** Define Timber Truss. Explain & sketch the following (any one) : **(05)**
- A. King Truss. B. Queen Truss.