Seat No:	Enrolment No:

PARUL UNIVERSITY

FACULTY OF ARCHITECTURE AND PLANNING

B. Arch. Summer 2018 Examination Semester: 2 Date: 14/05/2018 **Subject Code: 01101152** Time: 10 am to 1 pm **Total Marks: 50** Subject Name: Building Materials and Construction Technology-II **Instructions:** 1. All questions are compulsory. Figures to the right indicate full marks. Make suitable assumptions wherever required. 4. Draw suitable sketches wherever required. **Q.1** (10)Draw footing elevation, isometric and alternate footing courses of brick pier. **Q.2** (20)Attempt Any 5 out of 6: **A.** Define the following: i) Effective span ii) Verge iii) Hip iv) Rafter **B.** Answer the following: i) Explain types of lengthening and widening joints ii) Explain timber first floor in detail with sketches. **C.** Explain various applications of the following in building construction: i) Glass ii) Metal **D.** Sketch the following: i) Buddle Joints ii) Batten iii) Collar beam roof iv) Double or Purlin Roof **E.** Explain briefly with sketches: i) Types of pitched Roofs ii) Any 2 true Arches **F.** Answer the following: i) Enlist types of timber floors with sketches. Q.3 Answer briefly with sketches (Any 5): (10)

- a) Tusk tenon Joints
- b) Lean to roof
- c) Close Couple Roof
- d) Dove tail Joints
- e) Briddle Joint
- f) Cogged Joint

Q.4 Explain the following (Any 2)

(10)

- a) What do you understand by a squint junction? Draw typical sketches showing squint junction of 1 bk external wall and 1bk internal wall in (A) English bond
- b) Explain in detail types of foundation with sketches.
- c) Explain king post truss in detail with sectional elevation.