

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
D.ARCH - SEMESTER- II • EXAMINATION – WINTER 2018

Subject Code:3326203

Date: 09-01-2019

Subject Name: Construction Technology II

Time: 02:30 PM TO 04:30 PM

Total Marks: 50

Instructions:

- 1. Attempt all five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1** (a) What are the defects in timber? Discuss any one method of seasoning of timber. **05**
(b) Discuss any two types of shallow foundations. Also draw neat sketches. **05**
- Q.2** Write short note and draw neat sketches if required. **(Any Five)** **10**
- | | |
|---|-------------------------------------|
| 1. Wall Plastering method and materials | 4. Use of Laminates |
| 2. Use of Ply wood | 5. Use of ventilations in buildings |
| 3. Wooden Joists | 6. Pointing |
- Q.3** Write any **two**. **10**
- (a) Discuss five benefits of using of commercial wood in building industry.
(b) Discuss step by step construction method of foundation for one brick thick wall.
(c) Discuss use of glass in building industry with examples.
- Q.4** Draw neat sketches in detail. **(Any Four)** **10**
- Weather shed
 - Pergolas
 - Lean to roof
 - Revolving door
 - Sky light in roof
- Q.5** (a) Draft to suitable scale. RCC straight stair with floor to floor height 3m. Provide one landing at 1.5m level. Stair width 1m. Draw plan and sectional elevation. Also draw one enlarged detail showing railing and stair components like flooring and finishes. **10**
- OR**
- (a) Draft to suitable scale. Queen post wooden truss with 10m span. Draw a cross section with wall support and wooden ceiling at bottom of truss. Mention all components with sizes. **10**
