

Seat No.: \_\_\_\_\_

Enrollment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**D.ARCH - SEMESTER-III • EXAMINATION – SUMMER - 2018**

**Subject Code: 3336202**

**Date: 28/04/2018**

**Subject Name: Construction Technology III**

**Time: 02:30 PM TO 04:30 PM**

**Total Marks: 50**

**Instructions:**

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

- Q.1** (a) Write short note on shoring and explain types of shoring. Draft or sketch vertical section showing various parts and materials for any one type of shoring. 10
- Q.2** Answer any **TWO**. 10
- (a) Write short note on retaining wall. Explain retaining wall types and draw necessary sketches.
- (b) Discuss your understanding of a good formwork. Draw details of timber formwork for square and round R.C.C. column.
- (c) Write short note on vault. Explain types of vaults and draw necessary sketches.
- Q.3** (a) Draft or sketch details for two way slab. (Draw plan, sectional and necessary details with suitable scale.) Mention various parts and materials. 10
- OR
- (a) Draft or sketch different types of raft foundation showing plan, section and iso view. Mention various parts and materials.
- Q.4** (a) Write short note. Draw necessary sketch if required. (Any **FOUR**.) 10
1. Polyurethane forms (PUF).
  2. Echo and loudness
  3. Elements of Domes
  4. Absorption of sound
  5. Mineral wool
  6. Slopping R.C.C. roof
- Q.5** Answer any **TWO**. 10
- (a) Discuss pile foundation. Explain classification of piles and draw necessary sketches.
- (b) Draft or sketch R.C.C. column with footing showing reinforcement details in vertical sections.
- (c) Discuss expansion joint and why it is necessary in building. Draw vertical sections of expansion joint at roof level or first floor level.

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