

GUJARAT TECHNOLOGICAL UNIVERSITY
D.ARCH- SEMESTER-III • EXAMINATION – WINTER 2016

Subject Code:3336202**Date:17/11/ 2016****Subject Name: Construction technology - III****Time: 10:30 AM TO 12:30 PM****Total Marks: 50****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Compliment your answers with sketches wherever required.

- Q.1** a. Discuss the various types of foundations in detail with sketches. **10**
b. Discuss the various types of slabs in detail with sketches.
- Q.2** Describe the various types of vaults with sketches. **5**
OR
Describe the various types of Domes with sketches.
- Q.3** Explain in detail the temporary formwork and shuttering required for construction of an RCC column and beam along with sketches to support your answer. **5**
OR
Explain in detail the temporary formwork and shuttering required for construction of an RCC Slab along with sketches to support your answer.
- Q.4** Define the following in brief : (any 5) **5**
1. Shoring
2. Underpinning
3. Pile
4. Masking
5. Riverberation
6. Frequency of Sound
7. Expansion joint
- Q.5** a. Explain the working and construction of a filler slab with the help of neat sketches. **10**
b. Explain various materials used for a filler slab and advantages of a filler slab.
- Q.6** Write short note on the following and draw sketches wherever necessary : (any 1) **5**
Sound insulating materials
OR
Discuss the types of acoustical defects in an enclosed space
- Q.7** Draft to some scale plan and elevation of the following : **10**
RCC Retaining wall
OR
2-Way slab
