

**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

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