

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA IN ARCHITECTURE – SEMESTER – III • EXAMINATION – WINTER 2015**

**Subject Code: 3336202****Date: 12 -12 - 2015****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. Supplement your answer with neat sketches wherever necessary.

- Q.1** Explain the following Terms for any Five. **10**
1. Threshold of Audibility
  2. Loudness
  3. Echo
  4. Sound Intensity
  5. Frequency
  6. Sound Pressure
  7. Pitch of Sound
- Q.2** (a) Discuss Reverberation Sound **05**
- OR
- (a) Discuss Masking of Sound **05**
- (b) Write a Short note on Mineral wool **05**
- OR
- (b) Write a Short note on polyurethane forms (PUF) **05**
- Q.3** (a) Write a Short note on Shoring and Underpinning **05**
- OR
- (a) Write a Short note on Raft Foundation. **05**
- (b) Write a Short note on Two Way Slab **05**
- OR
- (b) Write a Short note on Cantilever Slab **05**
- Q.4** (a) Discuss in brief about One way Slab **05**
- OR
- (a) Discuss in brief about Grid Slab **05**
- (b) Discuss in brief about types of Foundations **05**
- Q.5** Discuss in detail about the acoustical defects on an enclosed space and explain each with the help of a sketch. **10**

\*\*\*\*\*