

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**DIPLOMA D.ARCH – SEMESTER-3 EXAMINATION –WINTER- 2019**

**Subject Code:3336202****Date:18-11-2019****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. Use of programmable & Communication aids are strictly prohibited.**
- 5. Use of only simple calculator is permitted in Mathematics.**
- 6. English version is authentic.**

- Q.1** Explain shallow foundation and describe type of shallow foundation **10**
- Q.2** Explain with sketch shoring and form work in building **10**  
**OR**
- Q.2** Explain with neat sketch grillage foundation **10**
- Q.3 (a)** Explain roof of building. And also indentifying insulating material for roof. **05**  
**(b)** Explain types of roof and detail out vault roof. **05**
- Q.4 (a)** Write short notes on RCC in building with neat sketch. And explain cantilever slab **05**  
**(b)** Explain sound behavior in closed space. What is the sound reverberation explain it **05**
- Q.5** Define with sketches any five of following **10**
1. Two way slab
  2. One way slab
  3. Pile foundation
  4. Thermal insulation material
  5. Raft foundation
  6. Beam reinforcement details
  7. Isolated foundation reinforcement details
  8. Domes
  9. Retaining walls
  10. Sloping roof

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