

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA D.ARCH – SEMESTER- 3 -EXAMINATION –WINTER- 2020

Subject Code: 3336202**Date: 1/1/2021****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 one and two way slab with neat sketch. **10**
- Q.2** Explain following **10**
1. Mass retaining wall
 2. Barrel vault
 3. Gorian vault
 4. Counterfort retaining walls

- Q.3** Explain retaining wall in details. Define types of retaining wall with neat sketch. **5+5**

OR

- Q.3** Explain form work on construction site. Draw column and footing formwork
- Q.4** Explain foundation and type of foundation. Draw isolated and grillage foundation **5+5**
- Q.5** Define with sketches any five of following **10**
- RCC roof
 - Shoring
 - Expansion joint
 - Insulation material
 - Sound absorption
 - RCC SLAB
 - Hollow clay blocks
 - Slag wool
 - Reverberation of sound
