

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BA- SEMESTER-V EXAMINATION – WINTER 2020

Subject Code: 2X55002

Date: 20/01/2021

Subject Name: Building Construction Drawing-V

Time: 10:30 AM TO 12:30 PM

Total Marks: 27

Instructions:

1. Attempt any THREE questions out of EIGHT questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** Explain retaining wall with detail sketch. Write safety factor against overturning of Retaining wall. Explain different types of stresses working on it. **09**
- Q.2** What is meaning of curing? Why is it essential to cure concrete? what are the Various methods commonly adopted in curing? **09**
- Q.3** Write short notes. (Any Three) **09**
1. Grillage foundation
 2. RCC elements
 3. Precast elements
 4. Timber pile
 5. Beam
 6. Importance of bracing
- Q.4** Explain different kind of footing for a steel column. Draw grillage foundation for a Steel column. **09**
- Q.5** Explain lacings, battening and bracings with detail sketch. **09**
- Q.6** Explain with sketch column to column connection, Column to Foundation Connections. **09**
- Q.7** Explain with sketch two way slab, one way slab, cantilever and baffled slab. **09**
- Q.8** Write short notes on following (Any Three) **09**
1. Vault
 2. R.C.C. Raft Foundation
 3. Built up beam
 4. Pre-cast concrete pile
 5. Deep foundation
 6. Friction pile
