

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.ARCH. – SEMESTER– III EXAMINATION – SUMMER 2019

Subject Code:1035002

Date:31/05/2019

Subject Name:Building Construction-III

Time:02:30 PM TO 05:30 PM

Total Marks:40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Make suitable sketches wherever necessary.
5. Make proportionate drawing wherever ask to draw.
6. Make Scaled drawing wherever ask to draft.

- Q.1 (a)** What is cement? Enlist various companies manufacturing cement in the market. **04**
What are the grades available in cement? What do these grades indicate?
- (b)** What is concrete? Enlist components of concrete and their significance. **03**
What do the various mixes of concrete indicate?
- (c)** Which type of wooden roof truss & wooden flooring will you suggest for room size of 5.00m x 8.00m? **01**
- Q.2 (a)** Draft wooden truss with joinery details, which you suggested for Q-1(C). **12**
- OR**
- (a)** Draft wooden floor with joinery details, which you suggested for Q-1(C). **12**
- (b)** Explain Briefly (any one) **04**
1. Wooden floors
 2. Wooden Truss
- Q.3 (a)** Draw plan & section of overhead water tank for 2,000 ltr. Capacity, explain in detail. **04**
- (b)** Write a short note on: Sanitary fixtures **04**
- OR**
- (a)** Write Short note on Septic tank and inspection chambers with relevant sketches. **04**
- (b)** Write a short note on: Plumbing fittings. **04**
- Q.4 (a)** Draw a schematic layout of Water Distribution System for a 3 storied building. **06**
- (b)** Define any two **02**
1. Dome.
 2. Vault.
 3. Spaceframe Structure.
 4. Prefabrication.
