

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

BA - SEMESTER-III EXAMINATION – WINTER 2018

Subject Code:1035002

Date:28/11/2018

Subject Name:Building Construction-III

Time:10:30 AM TO 01:30 PM

Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

**Q.1 (a)** What is cement? Enlist various companies manufacturing cement in the market. What are the grades available in cement? What do these grades indicate? **02**

**(b)** Enlist & sketch various market forms of steel. **04**

**(c)** Write a short note on: Defects in steel. **02**

**Q.2** Write a short note on the following. Attempt any four. **08**

1). Sanitary fixtures

2). Types of trap

3). Wood and its various types

4). Application of PVC in Building Construction

5). Prefabrication

**Q.3 (a)** Sketch in detail or draft a complete elevation of any one: **04**

1. King Post Timber Truss

2. Queen Post Timber Truss

**(b)** Write short note on any one: **04**

1) Setting action of cement

2) Curing of concrete

**OR**

**Q.3 (a)** Explain Timber Floors. Sketch any one from the following. **04**

1. Plan / Section of timber floor (Ground floor)

2. Details of Timber Floor (First floor)

**(b)** What is a roof? Enlist various types of roof. Sketch in detail any one type of roof from the following. **04**

1. Closed Couple roof

2. Lean-to roof

**Q.4 (a)** Schematic section of Toilet and basic drainage system for a G+1 building. **04**

**(b)** Explain briefly: One pipe and Two pipe systems. **04**

**Q.5(a)** What is per capita demand for projecting required water supply? In what unit is it represented?

Give factors affecting per capita demand for water supply? Enlist any four companies

Manufacturing water supply pipes used in buildings? **04**

**(b)** Write a short note on Septic tank and inspection chambers with relevant sketches. **04**