

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BID - SEMESTER-I EXAMINATION – WINTER 2018

Subject Code: 1015103

Date:01/01/2019

Subject Name: BASIC STRUCTURE-I

Time:10:30 AM TO 12:30 PM

Total Marks: 50

INSTRUCTIONS :

1. ALL QUESTIONS TO BE ANSWERED IN ENGLISH.
2. THE ENTIRE QUESTION PAPER IN THE FOLLOWING QUESTIONS IS COMPULSORY.
3. MAKE SUITABLE SKETCHES WHEREVER NECESSARY.
4. FIGURES TO THE RIGHT INDICATE THE MARKS.

Q-1. WHAT IS A FOUNDATION. EXPLAIN THE TYPES OF FOUNDATIONS IN BRIEF WITH NECESSARY SKETCHES-----
----- (10)

Q-2. WHAT IS A NATURAL LOAD. WHAT ARE THE TYPES OF NATURAL LOADS THAT ACT ON A BUILDING-----
----- (05)

OR

Q-2. WHAT IS A DEAD LOAD. WHAT ARE THE TYPES OF DEAD LOADS THAT ACT ON A BUILDING-----
----- (05)

Q-3. HOW IS LOAD TRANSFERRED IN A FRAMED STRUCTURE. EXPLAIN IN DETAIL WITH A NEAT SKETCH-----
----- (05)

Q-4. WHAT IS A LOAD BEARING STRUCTURE & FRAMED STRUCTURE EXPLAIN THE DIFFERENCE BETWEEN THE TWO-----
----- (10)

Q-5 ENLIST THE DIFFERENT TYPES OF MATERIALS USED IN BUILDING CONSTRUCTION. EXPLAIN ANY 3 IN DETAIL WITH THEIR USES AND PROPERTIES.-----
----- (10)

Q-6. DEFINE THE FOLLOWING TERMS: (ANY FIVE)-----
----- (10)

1. MANMADE LOAD
2. COLUMN
3. FOUNDATION
4. BEAM
5. LINTEL
6. SLAB
7. TRUSS
8. SILL
9. DEAD LOAD
