

GUJARAT TECHNOLOGICAL UNIVERSITY
B.ARCH. - SEMESTER-V EXAMINATION – WINTER - 2016

Subject Code:1055002**Date:26/10/2016****Subject Name: Building Construction-V****Time:10:30AM – 01:30PM****Total Marks: 40****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. All questions carry equal marks

- Q.1** (a) Explain briefly with sketches: Types of Shallow Foundations **04**
(b) Explain briefly with sketches: Types of Deep Foundations **04**
- Q.2** (a) What is Retaining wall? Explain Types of Retaining wall with sketches. **08**
- Q.3** (a) Mention the advantages and disadvantages of Cast-In-Situ and Pre-Cast Concrete Piles. **08**
- Q.4** (a) Explain how would you provide foundation in Black Cotton Soil? **08**
- Q.5** (a) Discuss Merits and Demerits of Welding and Nut-Bolt types of connections. **08**
- Q.6** (a) Explain the given connections through sketches: **04**
1) Beam to Beam Connections
2) Beam to Column Connections
(b) Explain the given connections through sketches: **04**
1) Column to Column Connections
2) Column to Foundation Connections
- Q.7** (a) Write Short note : Footing for Steel Columns **04**
(b) Write Short note : Importance of Bracing **04**
