

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**

**B. ARCH - SEMESTER- V- EXAMINATION- WINTER- 2017**

**Subject Code: 1055002**

**Date:17-11-2017**

**Subject Name: Building Construction - V**

**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** What is Curing? What all are effects of improper Curing? Mention the various methods adopted commonly in curing. **08**
- OR
- Q.1 (a)** Explain briefly with Sketches. (Any Two) **04**
1. Beam to Beam Connection
  2. Column to Foundation Connections
  3. Single Lacing
- (b)** Explain briefly with sketches about different rolled steel section. **04**
- Q.2** State the different methods of steel joints and briefly explain riveted Joints. **08**
- OR
- Q.2 (a)** Short Note. (Any Two) **04**
1. Bleeding of Concrete
  2. Expansion Joints
  3. Grade of Concrete
- (b)** What are the chief ingredients of Reinforce Cement Concrete? Give short brief about all ingredients. **04**
- Q.3** Explain briefly about all Types of Slabs. **08**
- OR
- Q.3** Explain Briefly. (Any Two) **08**
1. Type of Vaults
  2. One way and Two Way Slab
  3. Raft Footing
- Q.4 (a)** Describe about any two identical Steel Building. **02**
- (b)** Describe about any two identical Concrete Building. **02**
- (c)** What is Retaining wall? Explain Types of Retaining wall with sketches. **04**
- Q.5 (a)** Mention the difference between bearing piles and friction piles. **02**
- (b)** What is Cofferdam? Explain in detail about different types of Cofferdam. **06**
- OR
- In Construction where and why pile foundation used? Explain briefly about all types of Pile Foundation.

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