

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.ARCH. - SEMESTER-V EXAMINATION – WINTER 2015

Subject Code: 1055002

Date:09/12/2015

Subject Name: Building Construction V

Time: 10:30am to 1:30pm

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)** Define Foundation and Mention their objects. **04**
- (b)** Mention the difference between bearing piles and friction piles. **04**
- Q.2 (a)** What is meaning of Curing? Why is it essential to cure concrete? What are the various methods commonly adopted in curing? **08**
- Q.3 (a)** Write explanatory notes with sketches. **08**
- i. R.C.C Raft Foundation.
- ii. Grillage Foundation.
- Q.4 (a)** What are the chief ingredients of plain cement concrete? **04**
- (b)** Sketch in plan and elevation. **04**
- i. Single lacing.
- ii. Double lacing.
- Q.5 (a)** Explain the influence of shape of steel member upon its position in a steel structure. Sketch the various shapes of structural steel. **08**
- Q.6 (a)** Mention and Sketch how would you provide the foundation in black cotton soil? **08**
- Q7. (a)** Mention the function of the rivets in steel structure and advantages of riveted Connections. **08**
