

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

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|-------------|------------|---|-----------|
| 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.
i. R.C.C Raft Foundation.
ii. Grillage Foundation. | 08 |
| Q.4 | (a) | What are the chief ingredients of plain cement concrete? | 04 |
| | (b) | Sketch in plan and elevation.
i. Single lacing.
ii. Double lacing. | 04 |
| 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 |
| Q.7. | (a) | Mention the function of the rivets in steel structure and advantages of riveted Connections. | 08 |
