Subject Code: 1055002

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

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 0.1 04 (a) Define Foundation and Mention their objects. **(b)** Mention the difference between bearing piles and friction piles. 04 What is meaning of Curing? Why is it essential to cure concrete? What are the various **Q.2** 08 (a) methods commonly adopted in curing? 0.3 (a) Write explanatory notes with sketches. 08 i. R.C.C Raft Foundation. ii. Grillage Foundation. What are the chief ingredients of plain cement concrete? 0.4 (a) 04 Sketch in plan and elevation. 04 **(b)** i. Single lacing. ii. Double lacing. Explain the influence of shape of steel member upon its position in a steel structure. 08 0.5 Sketch the various shapes of structural steel. (a) Mention and Sketch how would you provide the foundation in black cotton soil? 0.6 **08** Mention the function of the rivets in steel structure and advantages of riveted 08 **Q7.** (a) Connections.
