Seat No.:	Enrolment No.
Deat 110	

GUJARAT TECHNOLOGICAL UNIVERSITY

B.ARCH. - SEMESTER-I EXAMINATION – WINTER 2015 Subject Code: 1015003 Date:18/12/2015

Tin	ne: 10	Name: Building Construction-I 0:30am to 01:30pm Total Marks: 40	
Inst	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	Enlist basic building materials used in the construction of buildings. Explain significance of the study of building materials in architecture.	04
	(b)	Draw a typical wall section of a building with RCC framed structure showing all building elements.	04
Q.2		Enlist various 'Mud construction techniques' and explain any two.	90
Q.3 (a	(a)	Write a short note on: 1. Sawing of timber 2. Seasoning of timber	04
	(b)	Write a short note on: 1. Manufacturing of bricks 2. Composition of good brick earth	04
		OR	
Q.3 (a)	(a)	Sketch the following: 1. Micro-structure of a tree 2. Rat trap bond 3. Herring bone bond	04
	(b)	 English bond Sketch the following: Random Rubble uncoursed stone masonry Random Rubble coursed stone masonry Dressed stone coursed masonry Dressed stone uncoursed masonry 	04
Q.4		Explain through sketches: Stages of Bamboo construction OR	
Q.4		Give comparison of: 1. Load bearing and Framed Structure 2. Brick masonry and Stone masonry	08
Q.5	(a)	Answer the following: 1. Sketch any two lengthening and widening joints 2. Give classification of Rocks	04
	(b)	Sketch the following: ½ Brick bat and Double Bullnose Brick. OR	04
Q.5	(a)	Draw or draft to Scale-1:10 - Isometric view of a right angled corner junction of one and half brick wall in Double Flemish Bond. Show min. 6 courses and Indicate all terms.	04
	(b)	Draw or draft to Scale-1:10 - Elevation and section of 350 MM tk. Square Rubble Uncoursed Masonry. Size of the wall panel in elevation- Height:1500 MM and Width: 1000 MM	04