Seat No.:	Enrolment No.
Deat 110	Emonient 10.

GUJARAT TECHNOLOGICAL UNIVERSITY B.PLAN - SEMESTER-I EXAMINATION - WINTER 2015

	U	Code: 1015503 Date: 21/12/2015 Name: Materials & Principles of construction	
Time: 10:30am to 12:30pm Instructions: Total Marks: 50			
ın		Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a)	 Attempt any five in one or two sentence. What is bond in masonry work? What is course random rubble stone masonry? What is quarry sap? What is malleable property of metal? Which are industrial (Engineered) wood? What is water seal? 	05
	(b)	fill in the blanks (any five) a. Innermost part of tree trunk is called b. Mixture of cement sand and water is called c. Plaster of paris is by-product of d is not malleable metal. e. Sap of wood is reduced by process. f. In load bearing wall construction structure below ground is called	05
Q.2	(a)	Differentiate load bearing structure and frame structure.	05
	(b)	What are the main constituents of concrete & describe briefly how it is produced?	05
	(b)	OR Which are the iron ore available in india ?describe briefly.	05
Q.3	(a)	Enlist various types of stone dressing & sketch any two type of dressing with tools used for it.	05
	(b)	Compare hard wood with soft wood.	05
Q.3	(a) (b)	OR Enlist various types of cement. Enlist various types of glass.	05 05
Q.4	(a)	Write any one short note with sketch from following. Retaining wall	05

		Culvert and aquaduct.	
	(b)	Compare cast iron with mild steel.	05
		OR	
Q.4	(a)	Describe briefly method of distribution of water supply in town.	05
	(b)	Define soil sewage and sullage.	05
Q.5	(a)	classifyurban roads and sketch section of one of them.	05
	(b)	Enlist various types of brick masonry bond and sketch any one isometric view	05
		of it.	
		OR	
Q.5	(a)	Elaborate any five abbreviation from following.	05
		MH, GT, IC, NT, RWP, SP, WP, VP	
	(b)	Define following components of building in single sentence. (any five)	05
		lintel, Plinth, Foundation, Parapet, Sill, Coping	
