## **GUJARAT TECHNOLOGICAL UNIVERSITY**

DIPLOMA ENGINEERING - SEMESTER-I/II •EXAMINATION-SUMMER - 2017

Date: 05/07/2017

Subject Code:3316203

**Subject Name: CONSTRUCTION TECHNOLOGY I** 

Time: 02:30 PM TO 04:30 PM Instructions:			Total Marks: 50	
•		<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> </ol>		
Q.1	(a)	Explain the following Terms and also draw a neat sketch for the same for any Five.	05	
		<ol> <li>Beam</li> <li>Column</li> </ol>		
		3. Retaining Wall		
		4. Cavity Wall		
		<ul><li>5. Brick Bond</li><li>6. Cornice</li></ul>		
	<b>(b)</b>	Write a short note on "Random Rubble" stone masonry	05	
Q.2	(a)	Write an explanatory note on the RCC Frame Structure	05	
	<b>(b)</b>	Write an explanatory note on the "Curing".	05	
Q.3	(a)	Draft / sketch alternative plans and elevation for min four courses for double Flemish Bond for the wall thickness of your choice.	05	
	<b>(b)</b>	Enlist the basic material of construction. Explain any three in detail.	05	
Q.4	(a)	What is "Cement"?, Enlist types of Cement and briefly describe any one of them	05	
	<b>(b)</b>	Explain Manufacturing process of brick.	05	
Q.5	(a)	Discuss Laboratory tests for checking the quality of the Concrete.	05	
	<b>(b)</b>	Draw / Draft to scale 1:20 A typical 230 mm thick wall section of a single storied building & denote all The part from top to bottom.	05	

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