Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.ARCH - SEMESTER– IV • EXAMINATION – SUMMER 2017

Subject Code: 1045002 **Date: 03/05/2017**

Subject Name: Building Construction - IV

Time: 10.30AM to 01.30PM **Total Marks: 40**

Instructions:

1. **Attempt all questions.**
2. **Make suitable sketches wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **Draw sketches wherever required.**

Q.1	**(a)**	What is 'Day Lightning'? What is meant 'Day lightning Factor'?	**04**
	(b)	Explain the following terms: (any four) 1. MCB 4. Electric Substation 2. LT Room 5. Transformation 3. Shoring	**04**
Q.2	**(a)**	Draw & Explain Cavity walls in bricks and Hollow concrete blocks.	**04**
	(b)	What is False Ceiling? Enlist and Explain at least three materials used for False ceiling	**04**
		OR	
	(b)	What is Scaffolding? Explain the types of Scaffolding.	**04**
Q.3		Explain the different stages of R.C.C. Constructions. Draw sketches were required.	**08**
		OR	
Q.3	**(a)**	What are Air Coolers & Air Conditioners? Differentiate each of the following	**04**
	(b)	What is AC & DC- power supply? Which type of current is supplied at your home appliances – (LED TV, Microwave Oven, Refrigerator, etc)?	**04**
Q.4		Design an Architect's office with a pantry of 4m by 6m on a 2nd floor of a commercial complex; assume the other information like Ventilation, Water supply & Electric connection etc; required for it. Draw furniture layout, section & details showing False Ceiling layout with Electric fitting in suitable scale.	**08**
		OR	
Q.4		Design a Kitchen with Store room of 4m by 5m for a ground floor row house; assume the other information like ventilation, water supply & drainage connections etc; required for it. Draw plan section & details showing fittings & services in suitable scale.	**08**
Q.5		Explain 'Heating Ventilation & Air Conditioning' system. Do essential of sketches where required.	**08**
		OR	
Q.5		Write difference between each of them: (any two) 1. Shuttering & Formwork 2. Partition & paneling 3. Escalator & Elevator	**08**

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