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)	**04**

  1. MCB   4. Electric Substation
  2. LT Room   5. Transformation
  3. Shoring

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)	**08**

  1. Shuttering & Formwork
  2. Partition & paneling
  3. Escalator & Elevator

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