## **GUJARAT TECHNOLOGICAL UNIVERSITY** B.ARCH. - SEMESTER-IV EXAMINATION – WINTER 2015

Subject Code: 1045002 Date:12/12/2015			
S	ubje	ct Name: Building Construction-IV	
		: 02:30pm to 05:30pm Total Marks: 40	
		tions:	
		<ol> <li>Attempt all questions.</li> <li>Make suitable assumptions wherever necessary.</li> <li>Figures to the right indicate full marks.</li> <li>All question carry equal marks. (08 marks)</li> </ol>	
Q.1	(a)	Enlist and explain types of wiring and describe in detail with sketches the	(04)
		electrification of a small scaled residential building.	(a. b)
	(b)	Write with examples the use of Elevators And Escalators and explain their basic working system with sketches.	(04)
Q.2	<b>(a)</b>	Explain the following topics with relevant sketches; (Any 2)	(06)
		(1) Scaffolding	
		<ul><li>(2) Shoring</li><li>(3) Kitchen working triangle</li></ul>	
		(4) Day Lighting design Concept	
	<b>(b)</b>	Make relevant sketches (Any one)	(02)
		(1) Double skin partition wall	
		(2) Double scaffolding	
Q.3	(a)	Enlist and explain with sketches- Stages of RCC construction.	(04)
	<b>(b</b> )	Write a short note on different types of cavity wall with relevant sketches.	(04)
Q.4	(a)	Write short note on following; (any 2)	(04)
		(1) Hollow blocks	
		(2) HVAC (2) False sailing	
		(3) False ceiling <b>OR</b>	
	(a)	Explain difference between Air conditioners and Air coolers.	(04)
	<b>(b</b> )	Explain Partition wall and Paneling. Elaborate various materials used for light weight partitions with sketches.	(04)
Q.5	<b>(a)</b>	Design a Toilet with changing room (in size of 3m X 5m) attached to the Master	(08)
		bedroom at first Floor of a residential Bungalow. Consider suitable entry and	
		ventilation, drainage and water supply for the toilet. Sketch or draft a proportionate plan, section, suitable details of fixtures and	
		fittings in relevant scale.	
		OR	
	<b>(a)</b>	Design a Kitchen with storage room (in size 3m X 5m) cabinets below platform	(08)
		and also above platform. Assume ventilation, water supply and drainage connection etc; Draw plan, Section and details showing fittings, fixtures and	
		connection etc, Draw plan, section and details showing nutrigs, fixtures and	

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services in suitable scale.