GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-III • EXAMINATION – WINTER • 2014

Subject Code: 2130607 Date: 18-12-2 Subject Name: Building Construction			
		2.30 pm - 05.00 pm Total Marks: 70	
Instructions:			
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary.	
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	4.	Make suitable neat and labeled sketches wherever required.	
Q.1	(a) (b)	Discuss the methods of boring for subsurface investigation. Discuss about failures of foundation and suggest remedial measures to avoid it.	07 07
Q.2	(a)	What is composite masonry? Explain stone facing with brick backing with neat and labeled sketch.	07
	(b)	What are the purposes to provide cavity wall? Explain position of cavity at foundation with sketch.	07
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	(b)	Sketch for: 1. Flemish bond for 30 cm thick brick masonry wall.2. Ashlar chamfered fine tooled wall in elevation.	04 03
Q.3	(a)	I. Sketch different types of steps with label.	04
		II. Sketch dog legged staircase in plan.	03
	(b)	Explain construction and suitability of sliding door with sketch. OR	07
Q.3	(a)	Explain about circular staircase with sketch.	07
L.	(b)	Explain casement window with sketch and label all the components on it.	07
Q.4	(a)	What are the essential requirements of a floor? Explain marble flooring with sketch.	07
	(b)	What is the need of temporary works? Enlist types of scaffoldings and explain any one in detail with sketch.	07
		OR	
Q.4	(a)	What is included in wall finishes work for a building? Explain method of painting	07
	(b)	with types of materials used for a building. Explain various types of roof coverings for pitched roof of a building.	07
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Q.5	(a)	I. Write in brief about Acoustical constructionII. Sketch three types of joints in stone masonry.	04 03
	(b)	Write in brief about 4 types of lintel and 3 types of arch with sketch. OR	03 07
Q.5	(a)	Write in brief about: 1.Anti termite treatment for a building.	04
·		2. Cast-in-situ construction.	03
	(b)	Explain about principle and construction of Green building.	07
