Subject Code:140602

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV EXAMINATION - SUMMER 2016

Date:30/05/2016

	U	ect Name:Building Construction :10:30 AM to 01:00 PM ctions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.	
Q.1	(a)	What are the different methods of site exploration? Write purposes of site investigation.	07
	(b)	Explain with sketch the "combined footing". Write the circumstances in which a combined footing is provided.	07
Q.2	(a)	Enlist the types of bonds in brickwork and explain with sketch 1½ brick thick wall in English bond.	07
	(b)	What is composite masonry? Give various types of it and explain with sketch brick facing and concrete backing wall.	07
	(b)	OR What is cavity wall? Write purposes of cavity walls.	07
Q.3	(a) (b)	List the ingredients of RCC and write its functions of each ingredient. What is the importance of aggregate in concrete mix? Give classification of aggregates.	07 07
		OR	
Q.3	(a) (b)	Define terms: Door, Window, Ventilator, Lock rail, Mullion, Jamb, Sill. What are the functions of ventilators? How is it different from a window? Draw sketch of ventilator.	07 07
Q.4	(a) (b)	Define the stair. Draw the detail sketch of stair and label the various parts of it. Enlist the types of floors and explain brick flooring with sketch. Also write its merits and demerits.	07 07
		OR	
Q.4	(a)	Write essential requirements of good roof and draw sketch of lean to roof showing all its parts.	07
	(b)	Define plastering and pointing. Explain with sketch the types of pointing.	07
Q.5	(a)	What is "timbering"? Explain various methods of timbering with the help of sketches.	07
	(b)	Enlist (i) Causes of fire in building and (ii) Causes of dampness in building. OR	07
Q.5	(a) (b)	Write note on "Termites and its attach on building". What is green building? Write characteristics of green building.	07 07
