Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION – WINTER • 2014

Su	bject	Code: 140602 Date: 29-12-2014	
Ti	•	Name: Building Construction 2:30 pm - 05:00 pm Total Marks: 70 ns:	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Write a note on various components of a building. What are the different methods for site exploration? Explain any two methods in detail.	07 07
Q.2	(a) (b)	Write the difference between rubble masonry and ashlar masonry. Discuss various factors affecting location of doors and windows. OR	07 07
	(b)	 Differentiate between Fixed window and pivoted window Explain with sketch Framed and panelled door. 	07
Q.3	(a)	Define the following. 1) Winders 2) Pitch. 3) Frog. 4) Queen closer. 5) Lintel. 6) Spandril. 7) Cornice.	07
	(b)	Describe dog-legged stair and bifurcated stair with neat sketch. OR	07
Q.3	(a) (b)	Discuss various factors affecting the selection of flooring material. What are the requirements of good plaster and explain various defects in plastering.	07 07
Q.4	(a)	Write a short note on 1) Needle scanolding, 2) Pit method for underpinning.	07
	(b)	What is composite masonry? Write advantages of composite masonry and enlist different types of composite masonry. OR	07
Q.4	(a)	Discuss in brief the causes of failure of foundation.	07
	(b)	What are the various methods of proportioning concrete? Explain any two in detail.	07
Q.5	(a)	What are special treatments in Building? Explain any one in detail.	07
	(b)	Discuss in brief general principles to be observed for providing damp proofing. OR	07
Q.5	(a) (b)	Discuss in brief the method of construction of concrete jack arch flooring. Write short note on "Thermal Insulation in Building"	07 07
