Seat No.:	Enrolment No.
Seat No	Emoment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV • EXAMINATION - SUMMER • 2014

	•	Code: 140602 Date: 20-06-2014	
Tir	•	t Name: Building Construction 10:30 am - 01:00 pm Total Marks: 70	
	1. 2. 3.	Attempt all questions. Make suitable assumptions wherever necessary.	
Q.1	(a) (b)	Describe the causes of failures of foundation and their preventive measures. Explain in brief (1)Sub-surface investigation (2) Methods of improving bearing capacity	07 07
Q.2	(a)	Describe the following wit figure in relation to masonry (1) King closer (2) Queen closer (3) Strecher (4) Header (5) Coping (6) Throating (7) Cornice	07
	(b)	Enumerate various stone masonries. Describe rubble masonry in detail with figure.	07
	(b)	OR Describe in brief (1) Foundation in black cotton soil (2) Wash boring	07
Q.3	(a)	Enlist various bonds in brickwork. Describe English bond and Flemish bond with their essential features.	07
	(b)	Define composite masonry and write its advantages. Describe any two types of composite masonries in detail. OR	07
Q.3	(a)	Write a short note on (1) Hollow mason (2) Cavity wall	07
Q.4	(b) (a)	Describe the preparties of fresh concrete. Define the following with figure in relation to stair	07 07
_	(b)	(1) Treact (2) Riser (3) Flight (4) Landing (5) Nosing (6) Waist (7) String Describe essential requirements of floor.	07
Q.4	(a)	OR Enlist various types of doors and explain flush door and collapsible steel door	07
	(b)	with figure. Enlist various types of windows. Explain bay window and sky light window with figure.	07
Q.5	(a)	Define the following in relation of roof. (1) Pitch (2) Ridge (3) Valley (4) Common rafter (5) Purlin (6) Eave board (7) Gable	07
	(b)	Describe the following with figure (1) Lean to roof (2) King post roof truss	07
Q.5	(a) (b)	OR Define shoring and underpinning. Explain any one method of each. Explain in brief the following (1) Damp proofing (2) Anti-termite treatment	07 07
