GUJARAT TECHNOLOGICAL UNIVERSITY B. ARCH - SEMESTER V - • EXAMINATION - SUMMER 2015

Subject Code: 1055002 Date: 05/05/2015

Subject Name: BUILDING CONSTRUCTION V

Time: 2:30 PM – 5:30 PM Total Marks: 40

Instructions:

- 1. Attempt any five questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. All questions carry equal marks

Q.1	(a)	Write Explanatory notes of the following with sketch (any 2): i. Raft Footing ii. Combined Footing iii. Eccentric Footing	08
Q.2	(a)	What is the meaning of the term pile foundation? Enumerate the situation demanding the use of pile of as foundation.	04
	(b)	Mention the advantages & disadvantages of cast – in – situ and pre cast concrete piles.	04
Q.3	(a) (b)	Explain briefly single rain forced and doubly rain forced R.C.C slabs constructions. What are the chief ingredients of main cement concrete?	04 04
Q.4	(a)	Sketch the various types of welding joints and mention advantages of welding over riveting. Also mention methods welding commonly adopted.	08
Q.5	(a)	Make sketches of following connections. i. Beam to Beam ii. Beam to column iii. Column to column iv. Column to foundation	08
Q.6	(a) (b)	Mention the advantages of steel roof truss over timber truss. Mention the advantages of riveted connections.	04 04
Q.7	(a)	what is meaning curing? Why is it essential to cure the concrete? And mention the various methods adopted commonly in curing.	08
