

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.Arch. – SEMESTER – IV • EXAMINATION – WINTER • 2014

Subject Code: 1055002

Date: 27-11-2014

Subject Name: Building Construction-V

Time: 10:30 am - 01:30 pm

Total Marks: 40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1	(a)	Write a short note on: 'Steel' as a structural material	04
	(b)	Write a short note on: 'Concrete' as a structural material	04
Q.2	(a)	Explain briefly with sketches: Types of Shallow Foundations	04
	(b)	Explain briefly with sketches: Types of Deep Foundations	04
		OR	
	(b)	Explain briefly: 1. R.C.C Elements 2. Pre-cast Elements	04
Q.3	(a)	Explain briefly with sketches: Types of 'Slabs'	04
	(b)	Explain briefly with sketches: Types of 'Vaults'	04
		OR	
Q.3	(a)	Give general principles for design and construction of Steel Structures.	04
	(b)	Explain briefly with sketches: Types of Rolled Steel Sections.	04
Q.4	(a)	Explain briefly with sketches: 'RCC Retaining Walls'.	04
	(b)	Explain through sketches: 'Footings for Steel Columns'.	04
		OR	
Q.4	(a)	Explain the given connections through sketches: 1. Beam to Beam connections 2. Beam to Column connections	04
	(b)	Explain the given connections through sketches: 1. Column to Column connections 2. Column to Foundation connections	04
Q.5		Explain briefly with sketches: 1. Lacing 2. Battening	08
		OR	
Q.5		Write a short note on: 1. Importance of 'Bracing' 2. Cantilever Footing	08
