Seat N	NO.: _	GUJARAT TECHNOLOGICAL UNIVERS	
a		BE - SEMESTER-III(New) • EXAMINATION – WINTE	
-			ate:11/01/2017
•		Name:Building Construction	
			Total Marks: 70
Instru			
		Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
	٠.	right to the right indicate run marks.	
			MARKS
Q.1		Short Questions	14
	1	Enlist various loads acting on a building.	
	2	Differentiate between disturbed & undisturbed soil sample.	
	3	Enlist various types of shallow foundation.	
	4	Explain the term stretcher with sketch.	
	5	What do you mean by workability of concrete?	
	6	Enlist any five materials used for flooring.	
	7	Write the value of minimum width of stair for a residential buil	ding.
	8	What do you mean by M_{20} grade concrete?	
	9	e ,	B) Ridge
	10	, , , , , , , , , , , , , , , , , , ,	
	11	\mathcal{E}	
	12	5	
	13	1 1 6	
	14	\mathcal{E}	0.0
Q.2	(a)	1 0 00	03
	(b)		04
	(c)		neasures 07
		would you adopt ? OR	
	(c)	Explain Raft foundation with sketch. When do you adopt it?	07
Q.3	(a)		03
Q.D	(b)	• • • • • •	04
	(c)	Write the difference between Rubble masonry & Ashlar masonry	
	(-)	OR	.,
Q.3	(a)		03
•	(b)	• •	04
	(c)	Write comparison of English bond with Flemish bond in detail.	07
Q.4	(a)	Describe Spiral stair with sketch.	03
	(b)	Explain briefly various operations in preparation of concrete at	site. 04
	(c)	Write detail comparison of Pitched roof & Flat roof.	07
		OR	
Q.4	(a)		03
	(b)		04
	(c)	What do you understand by scaffolding? Describe Single scawith sketch.	affolding 07
Q.5	(a)	Draw sketch of - A) Dormer window B) Gable window	03
Z	(4)	210. Showing of 11, Dolling window b) Quote window	U S

(b) Explain how post construction anti-termite treatment of a building is

carried out.

04

	(c)	Draw a sketch showing Single flight stair with various components &	07
		define the various components of stair.	
	OR		
Q.5	(a)	Write the benefits of green building.	03
	(b)	Describe Battened & Ledged door with sketch.	04
	(c)	Enlist different materials used for thermal insulation & Explain how do you achieve thermal insulation of roofs?	07
