Seat No.	GUJARAT TECHNOLOGICAL UNIVERSITY B.ARCH SEMESTER-V EXAMINATION – SUMMER 2019		
G 1.			
•	t Code:1055002	Date: 15/05/2019	
Subject Name: Building Construction-V Time:02:30 PM TO 05:30 PM Instructions:		Total Marks: 40	
2. N	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.		
Q.1 (a)	What is role of slab in construction. Explain a OR	ny two slab with brief.	(8)
(a)	Explain rivet, nut-bolt and welding connection	n in steel structure with neat sketches.	(8)
	(b) Differentiate between the following. (Any two)		
	(i) Combine footing and continuous footing		(4)
	(ii) Shallow foundation and Deep foundation		
	(iii) Simple footing and stepped footing.		
	(iv) Superstructure and Substructure.		
Q.2 (a)	Explain the given connections through sketch	es.	(6)
	(i) Column to foundation connection.		
	(ii) Beam to Column connection.		
	(iii) Column to Column connection.		
(b)	What is retaining wall. Explain types of retain	ning wall with neat sketches.	(6)
Q.3 (a)	Explain different method of foundation in bla	ack cotton soil	(6)
	OR		
(a)	Write explanatory note with sketches. (Any o	one)	(6)
	(i) Grillage foundation (ii) Raft found	ation	
(b)	Describe under-reamed pile foundation with	sketches construction method	(6)
Q.4 (a)	State a difference between Bearing pile and I	Friction pile.	(4)
	OR		
(a)	Write explanatory note on (Any two)		(4)
	(i) Sand pile (ii) Timber pile (iii) Vibro p	-	
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