Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY

B.E. Sem-II Remedial Examination September 2009

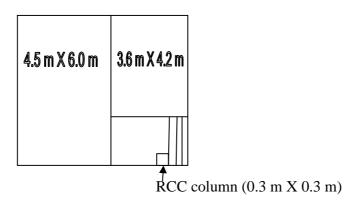
Subject code: 110004 Subject Name: Elements of Civil Engineering

Date: Instr		09 / 2009	Total Marks: 70	Time: 11	:00am-1:30pn	n		
111511			d enrolment no. at given loc	ation on qu	estion paper.			
	2. Attempt all questions.							
	3. Make suitable assumptions wherever necessary.							
Q-1	4. Figures to the right indicate full marks. (a) The following observations were taken with dumpy level and fo meter leveling staff. The instrument was shifted after the fourth at seventh readings. The first reading was taken on a bench mark who RL is 15.575 m. Prepare a page of level book and calculate RLs of a the points. The observations were taken at every 30m interval. Al find out the gradient between first and last point. Also draw the profile of ground. Use H.I. method. Observations are: 0.565, 1.250, 1.675, 3.695, 0.125, 2.345, 3.245, .500, 1.785, 2.535.					07		
	(b)		etch of the following. tel with Chajja. ed stair.			07		
Q-2	(a)		aterials nowadays used in con of good bricks and timber.	struction of	buildings.	07		
	(b)		tch GIS and its components?	State its obj	ectives.	07		
	(b)		sketch the use of line ranger a between plain survey and geo			04 03		
Q-3	(a)	while running a included angles of LINE AB BC CD DE EA	Fore Bearings 150° 00', 230° 30', 306° 15' 298° 00', 49° 30'	Calculate	-	07		
	(b)	Write short n 1) Methods 2) Local Att	of chaining on sloping ground	d.		07		
Q-3	(a)		trument used for measuring and occurre of measuring and occurred to the state of th	-	•	07		
	(b)		temporary adjustments of a	dumpy level		03		
	(c)	Draw the contour	rs of following objects with c			04		
		Hill, Pond, Hang	ging cliff, Steep Ground			1		

Q-4 Draw the detail plan of a building from its line sketch diagram. Draw the conventional signs to show the brick work and RCC work.

Also give dimensions of doors, windows, floor height, and plinth and parapet height. Draw the cross section of wall showing foundation and plinth with necessary dimensions.

Line sketch diagram, all dimensions are in meters.



OR

Q-4	(a)	Explain the term conservation of water? Discuss various measures for	07
		irrigation conservation.	
	(b)	What are advantages of road transportation? Draw the neat sketch of	07
		National highway showing all component parts and explain their	
		functions.	
Q-5		Write short notes on:	
		1) Traffic control measures and devices.	05
		2) Watershed and its development.	05
		3) Method of mixing of concrete.	04
		OR	
Q-5		Write short notes on:	
		1) Indirect ranging.	05
		2) Uses and properties of steel and stones.	05
		3) Aspect and Prospect.	04
