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Sec	it No.:			Enrolment No								
GUJARAT TECHNOLOGICAL UNIVERSITY B. E SEMESTER – I • EXAMINATION – WINTER • 2014												
Su	biect	code: 110004	4			Date: 03-01-2015						
Subject Name: Elements of Civil Engi Time: 10:30 am - 01:00 pm Instructions:							gineering Total Marks: 70					
	2.	Attempt any fi Make suitable Figures to the	assum	ptions v			sary.					
Q.1	(a) (b)	Role of Civil Engineer to the society. Define surveying and explain the fundamental principles of surveying.									07 07	
Q.2	(a) (b)											07 07
Q.3	(a)	What is meant by closing error in closed traverse? How would you adjust it graphically?								07		
	(b)	The bearings of side F.B. AB 1170 BC 32030 CD 2920 DE 1990 EA 1350 Find the include	45' 0' 00' 45' 15'	B.B 297 ⁰ 4 212 ⁰ 3 112 ⁰ 0 19 ⁰ 45 315 ⁰ 1	35' 30' 00' 5'				ows:			07
Q.4	(a)	The following line to an irreg	ular bo	oundary	line.		Γ					07
	Distance 0 25 50 75 100 125 150 175 200											

(m)	Distance	0	25	50	75	100	125	150	175	200
Ordinate(m) 0.00 2.90 3.10 4.60 4.20 3.90 4.50 2.40 0.0	(m)									
21221111 (227) 2123 2123 1100 1120 2170 1100 2170 010	Ordinate(m)	0.00	2.90	3.10	4.60	4.20	3.90	4.50	2.40	0.00

Compute total area using Simpson's rule.

- (b) Write a short note for dumpy level and draw a sketch showing various 07 components of it.
- Q.5 (a) Uses and requirements of a good quality bricks.
 (b) Draw a detailed plan of a 2 BHK residential building.
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 07
- Q.6 (a) List out principles of planning and explain Roominess and Elegance in detail. 07
 - (b) Explain the loads which are to be taken into account while designing the foundations of a structure.
- Q.7 (a) Brief note on water shed development. 07
 - (b) Explain various aids and devices used to control, regulate and guide traffic. 07
