a	ът	
Seat	NO	•
Scat	110.	•

Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY BE- SEMESTER 1st / 2nd EXAMINATION (OLD SYLLABUS) – SUMMER - 2017

Subject Code: 110004		t Code: 110004 Date: 05/06/20	Date: 05/06/2017	
Ti	me: 2 tructio 1. 2.	t Name: Elements of Civil Engineering 2:30 PM to 05:00 PM Total Marks: ons: Attempt any five questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	70	
Q.1	(a) (b)	Discuss the impact of infrastructural development on the economy of a country. Discuss the fundamental principles of surveying.	07 07	
Q.2	(a)	Explain the methods of chaining on sloping ground.	07	
	(b)	A road actually 3000m long was found to be 3020m when measured with a defective chain. How much correction does the 20m chain need?	07	
Q.3	(a)	Define: 1) Magnetic bearing. 2) Fore bearing. 3) Back bearing. 4) Magnetic declination.	07	
	(b)	Convert following W.C.B. in R.B. 1) 60 ⁰ 2) 100 ⁰ 3) 200 ⁰ 4) 300 ⁰	07	
Q.4	(a) (b)	Define: 1) Level surface. 2) Datum surface. 3) Horizontal surface. 4) Bench mark. Discuss the characteristics of contours.	07 07	
Q.5	(a)	What are the applications of Remote sensing?	07	
	(b)	Define and explain Geographical Information System.	07	
Q.6	(a)	What are the properties of good bricks?	07	
	(b)	Discuss the various types of loads acting on a building.	07	
Q.7	(a)	Explain hydrological cycle with neat sketch.	07	
	(b)	Explain the role of transportation in national development.	07	
