Sea	at No.: Enrolment	t No
В	GUJARAT TECHNOLOGICAL USE - SEMESTER- 1st / 2nd EXAMINATION (NEV	
•	Code: 2110004	Date:24-05-2018
-	Name: Elements of Civil Engineering ::30 pm to 05:00 pm	Total Marks: 70
1. 2.	Question No. 1 is compulsory. Attempt any four out Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	of remaining Six questions.
Q.1 (a)	Objective Question Choose the most correct answer of the questions.	following multiple choice 07
1.	Age of tree may be ascertained by (a) Radius of its stem (b) Circumference of its stem (d) Number of annual rings	tem (c) Number of branches
2. 3.	The principle of compass surveying is (a) Triangulation (b) Traversing (c) Parallelism (The size of modular brick is	d) None of these
3. 4.	(a) 20 x 10 x 10 cm (b) 19 x 9 x 9 cm (c) 20 x 10 The chain man who drags the chain is called the	x 5 cm (d) None of these
5. 6.	(a) Captain (b) Follower (c) Leader (d Write full form of BRTS in context with transport As per Principal of Planning- Privacy ,door shou	
7.	(a) Center (b) Corner (c) At any location (d) All Total station is used for	of above
	(a) measuring horizontal, vertical and slope dista(b) measuring horizontal, vertical and percentage(c) measuring height of an object(d) all the above	
(b)	Choose the most correct answer of the questions.	following multiple choice 07
1.		ring horizontal angles
2.	The imaginary lines joining places of equal dip a (a) Agonic line (b) Isogonic line (c) Isoclinic line	re called
3.	The surface water sources are(a) Streams & rivers (b) Rainfall (c) Wells (d) No The W.C.B. of a line is 50°, its Q.B. is	None of above
4.5.	(a) N50°W (b) N50°E (c) W50°N (d) The quantities of water required for domestic use	
6.	(a) 50 lpcd (b) 100 lpcd (c) 135 lpcd Planimeter is useful to measure	(d) 270 lpcd
7.	(a) length (b) area (c) volume (d) time The Satellite constellation of GPS consists of (a) 4 satellites (b) 6 satellites (c) 18 satellites	

	(C)	c) The following are the bearings of closed traverse. Find the included ar							ngles
		and draw the traverse. Line			T				
					Fore Bearing		Back Bearing		
		_	PQ		50° 00' E		50° 00' W		
		-	QR		60° 00' E		60° 00' W		
		-	RS		15° 00' W		15° 00' E		
		Ĺ	SP	N	70° 30' W	S	70° 30' E		
Q.3	(a)	Explain the components of GIS.							
	(b)	Describe v	-			in surveyir	ıg.		
	(c)	Enumerate	various	principles	of plann	ing. Expl	ain aspec	t, privacy	and
		Enumerate various principles of planning. Explain aspect, privacy an roominess in detail.							
		roominess	ın detaii.						
4	(a)			v hvildin a	hvo lovos) Evaloia I	ZCI in data	21	
4	(a)	What do yo	ou mean b		•	-	FSI in deta	il.	
4	(b)	What do yo	ou mean b	es of Build	ding loads.				.1
4		What do yo Explain dit Following	ou mean b fferent typ is a page	es of Build	ding loads.				y the
4	(b)	What do yo Explain dit Following usual check	ou mean b fferent typ is a page k.	es of Build of level bo	ding loads. ook. Fill in	the missin	ng reading	s and apply	y the
4	(b)	What do you Explain did Following usual check	ou mean b fferent typ is a page k. B.S.	es of Build	ding loads.			s and apply	y the
4	(b)	What do yo Explain did Following usual check Station	ou mean b fferent typ is a page k. B.S.	of level bo	ding loads. bok. Fill in F.S. -	the missin	ng reading Fall	R.L. 150.000	y the
4	(b)	What do yo Explain did Following usual check Station 1 2	ou mean b fferent typ is a page k. B.S.	I.S. - 2.457	ding loads. ook. Fill in	the missir	ng reading	s and apply	y the
4	(b)	What do yo Explain did Following usual check Station	ou mean b fferent typ is a page k. B.S. ? -	of level bo	ding loads. ook. Fill in F.S. -	the missin	ng reading Fall	R.L. 150.000 ?	y the
4	(b)	What do yo Explain did Following usual check Station 1 2 3 4	ou mean befferent type is a page k. B.S. ? 2.697	I.S. - 2.457	ding loads. ook. Fill in F.S.	the missir	Fall - 0.827	R.L. 150.000 ? ? 148.070	y the
4	(b)	What do you Explain did Following usual check Station 1 2 3	ou mean b fferent typ is a page k. B.S. ? -	I.S 2.457 2.400 -	ding loads. ook. Fill in F.S. ?	Rise - 0.057	Fall - 0.827 - ?	R.L. 150.000 ?	y the
4	(b)	What do you Explain did Following usual check Station 1 2 3 4 5	ou mean befferent type is a page k. B.S. ?	I.S 2.457 2.400	ding loads. ook. Fill in F.S. ?	Rise 0.057 - 0.646	Fall - 0.827 - ?	R.L. 150.000 ? ? 148.070 148.716	y the
1	(b)	What do you Explain did Following usual check Station 1 2 3 4 5 6	ou mean befferent type is a page k. B.S. ?	I.S 2.457 2.400 - 2.500	ding loads. ook. Fill in F.S. ?	Rise 0.057 - 0.646	Fall - 0.827 - ? -	R.L. 150.000 ? ? 148.070 148.716 149.784	y the

Q.6 (a) Describe application of remote sensing. 03 Describe: (i) isogonic line (ii) Application of contour map 04 **(b)** Enlist various types of cement. Discuss properties of any two. **(c) 07 Q.7** Explain watershed Development. 03 (a) Enumerate the qualities of good brick. 04 **(b)** Explain with neat sketch the various terminologies related to staircase. **(c) 07**
