Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

B.E Sem-I/II Examination June-July 2011

Subject code: 110004 Date: 25/06/11			Subject Name: Elements of Civil Engineering Total Marks: 70 Time: 10:30 am to 1:00pt		m
Insti	ructi	ions:			
		Attempt all questio	ons.		
			mptions wherever n	ecessarv.	
			t indicate full marks.		
	٠.	9 00 00 0 1 -9			
Q.1	(a)	Explain role of civ	vil engineer		05
C	(b)	-	ntal principles of surv	reving	05
	(c)	Describe Hydrolo		- 7 8	04
	(-)		8		•
Q.2	(a)	The details of observed bearings are mentioned below. find out the			
~·-	()			les if needed to be corrected.	07
		Line	FB	BB	
		AB	200 30	2000 00'	
		BC	110000	290°30'	
		CD	195 ⁰ 00'	15000	
		DE	286° 30'	106° 00'	
	(b)			ng and framed structure (ii) enlist	07
	(D)	different types of f		ing and framed structure (ii) emist	07
		different types of f	OR		
	(b)				07
	(0)	network of roads	ij of different roads (according to its position in national	07
		network of fotos	X		
Q.3	(a)	Enlist and Evnlair	the different types of	f henchmarks	05
Ų.J	` '				05
(b) The following readings are taken on Continuously falling ground staff of 4 m; they are 0.400, 0.765, 1.270, 2.560, 3.220,					US
	staff of 4 m; they are 0.400, 0.765, 1.270, 2.560, 3.220, 3.9 0.390,1.690,3.500,0.800,1.920, 2.450,3.980. Enter the readings in the part of the part of the staff of the part				
				all the points if the first reading was	
		taken on Benchma		an the points if the first reading was	
	(c)		cation of Remote sens	zinσ	04
	(c)	Explain the 71ppii	OR	_	UŦ
Q.3	(a)	Explain the follow		ailding Planning (i) Roominess (ii)	05
Q.S	(a)	Orientation (iii) Pr		monig i mining (i) recommess (ii)	0.5
	(b)	` /	•	in section for Building Drawing (i)	05
	(6)	•	i) Earth (iv) wood (v)		0.5
	(c)	` '		Il having thickness of 20 cm and 30	04
	(0)	cm	ion sketch for the war	in having threehees of 20 cm and 30	0.
		CIII			
Q.4	(a)	Explain the proper	ties of Bricks		05
V.1	(b)			ain ingredients of ordinary Portland	05
	(U)	cement	os or comoni and expr	an ingredients of ordinary rottland	UJ.
	(c)		C. C. Slab with Beam		04
		Diam skettii Ui IV.C	OR		UT
Q.4	(a)	Explain different to		evelopment techniques	05
~··	` '	•	, <u>.</u>	and their Importance	05

	(c)	Explain traffic planning and its importance	04
Q.5	(a)	Explain different types of Building loads	05
	(b)	The offset from boundary of an agricultural plot are taken as below at the	05
		interval of 20 m. Calculate the area between the base line and boundary by	
		Simpsons rule and trapezoidal rule The offsets are 0.24, 0.89, 1.45, 2.56,	
		5.67, 8.76, 7.88, 4.56,3.66,2.5 and 1.35.	
	(c)	Explain properties and uses of concrete	04
	` /	OR	
Q.5	(a)	Explain the different types of water conveyance structures	05
	(b)	Enlist different types of doors and draw sketch of panelled door	05
	(c)	Describe (i) isogonic line (ii) Application of contour map	04

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