	Q.P. Code: 19CE	20104										49954	R19	
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					(AU	TON	OMOL	JS)						
	B.Tech I	I Year	Seme	ster S	Supp	leme	ntary	Exar	ninat	ions	Decem	nber-2	021	
			SU	JRVI	EYIN	VG&	GEO	OMA	TIC	S				
				((	lomm	on to	CE &	AGE	)					
	Time: 3 hours			(	Jonn			TIGE	rt loons			May	o Marks	s: 60
	Time. 5 nours								sanit.	sia keling		Ivita	x. Iviturix	5. 00
			(Ans	swer al	ll Five	e Units	$55 \times 1$	2 = 6	<b>0</b> Ma	rks)				
						UNI	T-I							
1	a Briefly explain	the princ	iples of	survey	ing.								L2	6M
	<b>b</b> Write short not	es on typ	es of err	ors.									L1	6M
						0	R							
2	The following be	earings v	were ob	served	in ru	inning	a clos	sed tr	averse	e. At v	vhat sta	tions	L3	<b>12M</b>
	do you suspect local attraction? Find the correct bearings of lines and also compute										npute			
	the included angl	es.	<b>_</b>			DIC		DAG	UDD	ADDL		7		
			F	$\frac{ORE}{1005}$	BEAR	ang		BAC	KBE.	AKIN	J	-		
	AB		/	100203	,			250°	$\frac{20^{\prime}}{25^{\prime}}$			-		
	BC	3C 110°20° 292°35°												
	DE			$\frac{51^{\circ}40}{20^{\circ}50}$	,			341	40 5'			-		
			2	$20^{-}50$	,			40-0	$\frac{5}{10^{2}}$			-		
	EA		3	00.30		TININ	<b>F F</b>	121	10					
•	XX7 ** 1 ** *		1 1 0			UNI	1-11							() (
3	a Write short not	es on me	thods of	levelin	ıg.	- 61	.1							6IVI
	<b>b</b> Brieffy explain	n the ten	nporary	aajusi	ment	of lev	enng.						LZ	0111
4	The following st	off road	ing w	oro oh	CORVO		K.	ly wi	th lor	al the	a instru	mont	12	121
has been moved forward after the second forward after the								ighth	readi		875 1	235	LJ	12111
	2 310 1 385 2 9	nas been moved forward after the second, fourth and eighth readings: 0.875, 1.235, 2.310, 1.385, 2.030, 3.125, 4.125, 0.120, 1.875, 2.020, and 2.765. The first reading												
	was taken with the staff held upon a benchmark of elevation 132.135m Enter the													
	readings in level	book-fo	orm and	l redu	ce the	e level	s. Fin	d also	the	differe	ence in	level		
	between the first	and the	last po	ints. T	abula	ate the	field	book	and c	alcula	te the l	evels		
	of the points. Use	e Rise ar	nd Fall r	nethoo	1									
						UNIT	<b>[]]</b>							
5	<b>a</b> Find the horizontal and vertical distances by tangential method when both angles								L3	<b>6M</b>				
	are angles of elevation.													
	<b>b</b> How would you, determine the constants K and C of a Tacheometer.							L3	6M					
	OR													
6	The vertical angles to vanes fixed at 0.5m and 3.5m above the foot of the staff held							L5	12M					
	vertically at a point were - 00° 30' and + 10 °12' respectively. Find the horizontal													
	distance and the reduced level of the point, if the level of the instrument axis													
	is125.380meters	above da	atum.											
						UNI	Γ <b>-ΙV</b>							
7	<b>a</b> Write short notes on types of circular curves.								L1	6M				
	<b>b</b> Define degree of curve. Derive a relation between the radius and degree of a curve.								L1	6M				
						0	R							



## Q.P. Code: 19CE0104

8 Two tangents intersect at chainage 1250 m. The angle of intersection is 1500. Calculate all data necessary for setting out a curve of radius 250 m by the deflection angle method. The peg intervals may be taken as 20 m. prepare a setting out table when the least count of the Vernier is 20". Calculate the data for field checking.

## UNIT-V

9	a	Explain about AM and FM modulation.	L2	<b>6M</b>
	b	What is modulation? Explain the necessity of modulation.	L2	6M
		OR		
10	a	Explain in detail about the infrared type of EDM instrument.	L3	<b>6M</b>
	b	Write short notes on total stations.	L1	<b>6M</b>

\*\*\* END \*\*\*