Ro	ll No.		Total Pa	ges : 3	
0				2417	
		May 202	24		
		B.Tech. (Civil) - IV			
	SUI	RVEYING AND ENGINE	ERING GEOMATIC	S	
		(PCC-CE-2	06R)		
Time: 3 Hours]			[Max. Mar	[Max. Marks: 75	
Ins	tructio	ons:			
	1.	It is compulsory to answer all the questions (1.5 mark. each) of Part-A in short.			
	2.	Answer any four question.	s from Part-B in detai	1.	
	3.	Different sub-parts of a cadjacent to each other.	question are to be att	empted	
		PART-A	Discuss the discussion		
1.	(a)	Determine what does 1 cr of 1:50000 represent on t		a scale	
	(b)	Define transition curve.	ne ground.	(1.5	
	(c)	Discuss the benefits of GI	PS.	(1.5	
)	(d)	Define Photogrammetry.		(1.5	
	(e)	A 50 m tape is held 2 m c	out of line. Determine	its true	
		length.		(1.5	

What is Trigonometric leveling?

(g) What is a Theodolite?

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(1.5)

(1.5)

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Define contour. (1.5)Differentiate between Digital and Auto Level. (1.5)Define Stereoscopy. (1.5)PART-B State five Merits and five Demerits of plane Table (10)survey. Draw contour lines for uniformly sloping ground. (5) Differentiate between aerial terrestrial and photogrammetry. (5)(b) Explain the working principle of a total station along with a suitable diagram. (10)Discuss the different types of Errors in Levelling and their corrections in detail. (15)Discuss the different uses of theodolite. (5) Explain remote sensing and list its applications. Distance between two stations when measured with 20 m chain was 1423 m. It was afterward found that the chain was 10 cm too long. Calculate true distance between two stations. (10)Differentiate between aerial triangulation and radial triangulation. (5)

- 7. Elaborate on the following:
 - (a) What are platforms and sensors?
 - (b) How is remote sensing data acquisitioned?
 - (c) Differentiate between visual image interpretation and digital image processing. (15)