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Reg. No.:

Question Paper Code: 93106

B.E. / B.Tech DEGREE EXAMINATION, NOV 2021

Third Semester

Civil Engineering

19UCE306 Surveying

(Regulation 2019)

	(1	(egulation 2017)				
Dur	ration: Three hours		Maximum: 10	00 Marks		
	Ansv	wer ALL Questions				
	PART	A - $(5 \times 1 = 5 \text{ Marks})$				
1.	Surveys which are carried out to depict mountains, rivers, water bodies, wooded areas and other cultural details, are known as					
	(a) Cadastral Surveys	(b) City Surveys				
	(c) Topographical Surveys	(d) Plane Survey	(d) Plane Surveys			
2.	The principle of compass surveying	is		CO1- U		
	(a) Triangulation (b) Traversing	g (c) Parallelism	(d) None o	of these		
3.	Among the classification of triangular order?	lation system, which posses	s the highest	CO3- U		
	(a) Primary (b) Secondar	y (c) Tertiary	(d) Quater	nary		
4.	In total station, data is stored in			CO5- U		
	(a) Pen drive (b) Data card (c) Micro processor (d) External hardware					
5.	Which of the following is not a prin	ciple of remote sensing?		CO1- U		
	(a) Interaction of energy with satell	ite (b) Electromagn	etic energy			
	(c) Electro-magnetic spectrum	(d) Interaction of	(d) Interaction of energy with atmosphere			
	PART	$-B (5 \times 3 = 15 \text{ Marks})$				
6.	Convert the following WCB system 260 ^o 30'	into RB system. WCB = 12	2 ⁰ 30' and	CO2- App		

CO1-U

CO1-U

What is the relation between fundamental lines in theodolite?

Define well conditioned triangle.

9.	Wha	at is meant by EDM?	COI- U			
10.	Wha	at is remote sensing.	CO2- App			
			PART - C (5 x	16= 80 Marks)		
11.	(a)	(i) 22 ⁰ 30' (ii) 15	0 ⁰ 45' (iii) 2 ri) 170 ⁰ 12'	41 ⁰ 00' (iv) 320 ⁰ 30' (vii) 211 ⁰ 54' (viii)	CO2- App	(16)
	(b)	· ·	ch stations were at	while traversing with a effected by local attraction Back Bearing 254°0′ 271°0′ 343°0′ 0°0′ 9°0	CO3- Ana	(16)
12.	Theodolite survey. Conclude that which one is most precise method? Justify.				CO3- Ana	(16)
	(b)	Analyze the principle of	Or of stadia tachometr	y.	CO3- Ana	(16)
13.	(a) Explain various types of curve with neat sketch. Or				CO1- U	(16)
	(b)) What is meant by triangulation and briefly explain their types.			CO1- U	(16)
14.	(a)	Explain the features of Total station. Or			CO4- U	(16)
	(b)				CO4- U	(16)
15.	(a)	Briefly explain basic concept of photogrammetric surveying. Or			CO5- U	(16)
	(b)	What are the various implementation of remote sensing			CO5- U	(16)