

## MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad) Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act, 1956

## II B.Tech I Sem Supply End Examination, July-2022 **Surveying and Geomatics**

(CIVIL ENGINEERING)

Time: 3 Hours. Note: 1. Question paper consists: Part-A and Part-B. Max. Marks: 70

- - 2. In Part A, answer all questions which carries 20 marks.
  - 3. In Part B, answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

## PART- A

(10\*2 Marks = 20 Marks)

1.	a)	Define Surveying	2M	CO1	BL1
	b)	What is meant by 'dip'	2M	CO1	BL1
	c)	Draw contour of a lake	2M	CO2	BL1
	d)	Draw neat sketch of leveling staff	2M	CO2	BL1
	e)	Explain the purpose of theodolite	2M	CO3	BL4
	f)	Name the instruments to measure horizontal angle.	2M	CO3	BL1
	g)	What is "omitted measurement"?	2M	CO4	BL1
	h)	What is a reverse curve in traverse	2M	CO4	BL1
	i)	Explain 'mosiac'	2M	CO5	BL4
	j)	What is the purpose of EDM?	2M	CO5	BL1

## PART-B

(10\*5 Marks = 50 Marks)

2	a)	List out the surveying accessories	5M	CO1	BL1
	b)	Explain the principles of surveying	5M	CO1	BL4
		OR			
3		Explain the tape corrections to be made when a tape is elongated due to temperature rise	10M	CO1	BL4
4	a)	Explain temporary adjustments to dumpy level	5M	CO2	BL4
	b)	What is the effect of curvature on earth	5M	CO2	BL1
		OR			
5		Explain the methods of contour surveying	10M	CO2	BL4

6	a)	What are the different types of theodolites . Write the features of any two	5M	C03	BL1	
	b)	Explain 'reiteration' method.	5M	CO3	BL4	
		OR				
7		Explain trigonometrical levelling	10M	CO3	BL4	
8	a)	Explain the necessity of curves in surveying.	5M	CO4	BL4	
	b)	Explain the application of vertical curves	5M	CO4	BL4	
		OR				
9		Explain methods of traversing using chain and compass	10M	CO4	BL4	
10	a)	Write the advantages of total station surveying	5M	CO5	BL1	
	b)	Mention any two errors in above surveying	5M	CO5	BL1	
		OR				
11		Explain photogrammetry survey on the ground	10M	CO5	BL4	

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