Q.P. Code: 19CE0104

Reg. No:

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR

(AUTONOMOUS)

B.Tech II Year I Semester Supplementary Examinations August-2021 SURVEYING & GEOMATICS

(Common to CE & AGE)

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Time	e: 3	hours Max. Max	arks: 60
		(Answer all Five Units $5 \times 12 = 60$ Marks)	
		UNIT-I	
1	a	Briefly explain the principles of surveying?	6M
	b	Write short notes on types of errors.	6M
		OR	
2	a	Briefly explain the various accessories in chain surveying.	6M
	b	What are the duties of a surveyor?	6M
		UNIT-II	
3	a	Write short notes on errors in leveling	8M
	b	Discuss the effects of curvature and refraction in leveling.	4M
		OR	
4	a	Define contour. State the various characteristics of contour lines.	7 M
	b	Mention the uses of contour in civil engineering works?	5M
		UNIT-III	
5	a	Write about parts of the Transit Theodolite. Explain in detail.	6M
	b	What are the different errors in Theodolite work? How are they eliminated?	6M
		OR	
6	a	What is an analytical lens? Establish the basic equation for an analytic lens.	5M
	b	What is tacheometry? What are different systems of tacheometric measurements?	7M
		UNIT-IV	
7	a	Define and draw a typical compound curve. Under what circumstance compound	6M
		curves are provided.	
	b	Derive the expression for the elements of a compound curve.	6M
		OR	
8	a	Write short notes on reverse curves.	6M
	b	Explain the procedure of setting out of curve by two theodolite methods.	6M
		UNIT-V	
9	a	Explain about AM and FM modulation.	6M
	b	What is modulation? Explain the necessity of modulation.	6M
		OR	
10	a	Explain in detail about the infrared type of EDM instrument.	6M
	b	Write short notes on total stations.	6M

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