### Q.P. Code: 16CE105

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	SIDDHAI	RTH INST.			& TECHNOLOGY:: PUTTUR	
	вт	och II Voor		UTONOMOUS)		
		ch ii i eai		SURVEYING	Examinations August-2021	
				Civil Engineering)	e summeridelt reactions contraction	
in	ne: 3 hours		(0	ivit Engineering)	Max. Ma	rks. 6
	ie. 5 nouis		( ) 11 5			IK5. U
			(Answer all F	ive Units 5 x 12 =	= 60  Marks)	
	î de la companya de l			UNIT-I		
	<b>a</b> Explain the principle of surveying.					6M
	<b>b</b> Explain with neat sketch the radiation and intersection method in plane table					6M
	surveying.					
			0 1 1 1	OR		
	<b>a</b> Explain the methods of obstacles in chaining.					5M 7M
	compute th	he inclined				
		Line	Fore bearing	<u> </u>	ng	
		AB	66°20'	246°20'		
		BC	139°30'	318° 50'		
		CD	189°40'	11°20'		
		DA	300°30'	119° 30		
				UNIT-II		
	a Explain th	<b>a</b> Explain the theory of simple and differential leveling.				
	<b>b</b> What are different difficulties and errors in leveling?					6M
				OR		
	a Explain the characteristics of contours.					6M
	<b>b</b> Mention the uses of contour maps in civil engineering field.					6M
				UNIT-III		
5	<b>a</b> Write the procedure to measure horizontal and vertical angles using theodolite.					6M
	<b>b</b> What are different sources of error in Theodolite survey.					6M
	OR					
6	Determine the RL of the top of the temple from the following data. Station A and B are					12N
	in line with the top of the temple					
	Inst. Station Reading on BM (m) Vertical Angle 1				RL of BM	
	А	1.085		$10^{0}48'$	RL of BM =150.00m	
	В	1.265		7 <sup>0</sup> 12'	AB=50m	

**R16** 

7 Two tangents intersect at chainage 1250 m. The angle of intersection is 1500. Calculate 12M 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 Vernieris 20". Calculate the data for field checking.

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OR

8 Describe with neat sketch the method of setting a simple circular curve by Rankine's 12M deflection angle method.

# UNIT-V

9 a Explain the principle of EDM instrument with a neat sketch6Mb What are different applications of Electronic theodolites6M

### OR

10 a What are different model of Total station and explain the various uses of total 6M station.

**b** Explain about AM and FM modulation.

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

**6M** 

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