O.P.Code: 23CE0105 R23 H.T.No.

SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

B.Tech. II Year I Semester Regular & Supplementary Examinations November-2025
SURVEYING
(Civil Engineering)

Time: 3 Hours

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A	Inst Station	A and B are in lir	Determine the R.	Discuss in detail	I jet out the verio	and reduce the le level between the	benchmark of ele	readings: 0.875,	The following st	paris.	Explain the pris	9	N/cm2. Compute during measurem	= 6.8N. For steel,	pull of 147N and	its length under a	A steel tape was	Driefly amplein th			Make a note on Isocentre	Define photographic mapping	Define tangent le	Differentiate bety	base is inaccessit	Mention the form	Define Levelling.	Make a note on S	List any four acc	Differentiate bety		ime: 3 Hours
1.085	Reading on BM(m)	A and B are in line with the top of the temple.	L of the top of a te	Discuss in detail about the volume by cross section method.	ne mathode of data	and reduce the levels. Apply the usual crewel between the first and the last points.	vation 132.135m.	1.235, 2.310, 1.38	aff readings were		Explain the prismatic compass with a neat sketch		N/cm2. Compute the true length of during measurement at every 30 m.	$l_{\rm r} = 11 \times 10-6  \mathrm{p}$	l at a mean temper	pull of 98N. A lin	exactly 30 m long		(Answer a)		socentre.	hic manning	write short note on intrared type of EDM instrument	Differentiate between face left and face right observation	base is inaccessible by single plane method	ula to find the dist		Make a note on Simpson's one third rule	List any four accessories in surveying	Differentiate between WCB and RB.	(Answer all	
10°48′ 7°12′	Vertical Angle	he temple.	UNIT-III  mple from the f	by cross section i	OR	ual checks. Find oints.	Enter the readin	35, 2.930, 3.125	observed succes	TINIT	ith a neat sketcl	OR	of the line if th	per °C and E for	rature of 32°C a	e was measured	nate methods in	UNIT-I	(Answer all Five Units $5 \times 10 = 50$ Marks)	PART-B			EDM instrumer	lace right observ	method.	lance between th		Tule.	ng	S.	the Ouestions 10	Civil Differential
R.L of BM = 150.000m AB=50 m	R.L of BM	Grand Grand	UNIT-III  Determine the R.L of the top of a temple from the following data Station	method.		and reduce the levels. Apply the usual checks. Find also the difference in level between the first and the last points.	benchmark of elevation 132.135m. Enter the readings in level book-form	readings: 0.875, 1.235, 2.310, 1.385, 2.390, 3.125, 4.125, 0.120, 1.875, 2.300, 2.427, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425, 2.425,	The following staff readings were observed successively with level, the instrument has been moved forward after the cooper found in the cooper for the coope		h by indicating their		N/cm2. Compute the true length of the line if the tape was supported during measurement at every 30 m.	= 6.8N. For steel, = 11 X 10-6 per °C and E for steel = 20.58 X 106	pull of 147N and at a mean temperature of 32°C and found to be 780 m	its length under a pull of 98N. A line was measured with this tape under a	A steel tape was exactly 30 m long at 20°C when supported throughout		10 = 50  Marks				II	ation		Mention the formula to find the distance between the two points when the				o was and tatalana)	$\underbrace{PART-A}_{PART-A}$ (Answer all the Ouestions 10 x 2 = 20 Marks)	· ·
		6	3	C02	3				C02		C01			5		9	6			(	500		505	CO3	,	CO3	C02	C02	CO1	C01		Max.
		5	<u>ا</u>	L1 L2	-				14		L2					į	12			ļ	<u> </u>		1 5	L2		L2		L1	L1	1.2		Marl
		7410	Ž	5M					10M		10M		Į,			TATO	2 Z			1	) M	2 Z	2M	2M		2M	2M	2M	2M	2M		Max. Marks: 70

CO4 L1 CO5 L2 CO6 L2 CO	*** TVTV +++	b Brief about mapping using stereo-plotting instruments with their types CO6 L2 and applications.	a Make a note on mapping using paper prints.	OR	Illustrate about terrestrial photogrammetry in detail.	UNIT-V	<ul> <li>Brief explain about Drone survey and LiDAR survey.</li> </ul>	a Write short notes on Global Positional System.	OR	method.	explain the field procedure of setting out of curve by two theodolite	Mention the various methods of setting out of simple curve. Briefly	UNIT-IV	b Briefly explain the Bowditch's method of adjusting the traverse.	a Write short notes on methods of adjusting the traverse.	Ch
		ts with their types CO6	C06		COC		C05	C05			by two theodolite				C04	

