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Code No: R1621356

R16

SET - 1

II B. Tech I Semester Regular Examinations, October/November - 2017 SURVEYING

тіл	2 2	(Agricultural Engineering) hours Max.	Morkey 7
1111	ne: 3	Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answer ALL the question in Part-A 3. Answer any FOUR Questions from Part-B	Marks: 7
		<u>PART –A</u>	
1.	a)	Find the Quadrantal bearings of (i) 192.5° (ii) 217°36'52"	(3 M)
	b)	Explain the term "Simple Leveling"	(2 M)
	c)	Explain the Double Meridian Distance (D.M.D) method for the computation of area of a closed traverse?	(3 M)
	d)	Distinguish between plane and geodetic surveying?	(2 M)
	e)	State the Principle of Tachometric surveying?	(2 M)
	f)	State the causes of errors and corrections in GPS observations?	(2 M)
		PART -B	
2.	a)	Give the broad classification of surveying	(7M)
	b)	The area of the Plan of an old survey plotted to a scale of 10 metres to 1 cm measures now as 91.5 Sq.cm as found by a Planimeter. The plan is found to have shrunk so that a line originally 10 cm long now measures 9.6 cm only. There was also a note on the plan that the 30 m chain used was 7cm too short. Find the true area of the survey.	(7M)
3.	a)	What are advantages and disadvantages of Rise &Fall method to Height of collimation of Reducing the RL	(7M)
	b)	State the characteristics of contours?	(7M)
4.	a)	State the Area Calculation by Trapezoidal Rule	(7M)
	b)	The area on a map with a scale of 1:12000 as measured with a planimeter is 2.54 sq in. What is the area in acres?	(7M)
5.	a)	State the applicability of repetition method and reiteration methods	(7M)
	b)	A short traverse was made in an underground roadway joining two shafts A and E. All stations are in the same level. Line Azimuth Length (m) AB 210° 40 BC 135° 135 CD 240° 150 DE 330° 110 Calculate the length and Azimuth of a proposed new direct roadway AE for haulage and ventilation purposes.	(7M)
6.	a)	Explain the stadia method of tachometric survey	(7M)
	b)	In tachometric observations, the staff readings are found to be 2.4m, 3.0 m and 3.6m. If the angle of elevation is 45 0, the multiplying factor is 100 and the additive constant is 0.3 m then Find out the horizontal distance between the staff and the instrument	(7M)
		1 of 2	



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7. a) Explain about GPS receivers, GPS observable and Data processing? (7M)

b) State the different components of EDM instruments? (7M)

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