Code No: RT21353

R13

SET - 1

II B. Tech I Semester Supplementary Examinations, May/June-2016
SURVEYING
(Agricultural Engineering)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answer **ALL** the question in **Part-A**
3. Answer any **THREE** Questions from **Part-B**

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PART –A

1.	a)	What are the different sources of errors in chain surveying?	(3M)
	b)	What are the temporary adjustments of leveling	(4M)
	c)	How will you determine the capacity of a reservoir?	(4M)
	d)	List out the different errors in theodolite.	(3M)
	e)	Write about Fixed hair method.	(4M)
	f)	Write about Total station	(4M)

PART -B

2.	a)	What are the different errors in compass error?	(8M)
	b)	Explain with sketches locating a point by Resection method in Plane Table surveying.	(8M)
3.		Derive the Prismoidal formula.	(16M)
4.	a)	How do you measure with a theodolite the horizontal angle by repetition?	(8M)
	b)	Distinguish between closed traverse and open traverse.	(8M)
5.	a)	Derive the expression for distance by tangential method when both angles are angle of elevation.	(8M)
	b)	Write the steps involved in setting a simple curve	(8M)
6.	a)	What are the different types of EDM instruments? Write in detail about Geodimeter	(10M)
	b)	Distinguish between G.I.S and G.P.S	(6M)
7.		The following staff readings were taken with a level which was shifted after 4th,8th and 10th readings:2.235,210.5,1.865,0.96,0.48 ,2. 64, 2. 64, 1. 85, 1.92, 2.25, 2.37 and 5.46. Assuming the R.L of starting point as 100.00m, enter the readings in the form of a level book page and determine the rise and fall at all points.	(16M)

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