KERALA AGRICULTURAL UNIVERSITY

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B.Tech (Agrl.Engg) Degree programme 2015 Admission IInd Semester Final Examination- June/July-2016

	at. No: Lwre.1202 tle: Surveying & Leveling (1+2)	Marks: 50 🦛 Time: 2 hour
	-Fill up the blanks	10x1=10 marks
1.	Number of brass tags in a 30 m chain is	
2.	The curvature of earth is considered in surveying	•
	In the QB system, a line is said to be free from	, if the FB &
	BB are numerically equal	_^ .
4.	When consecutive contour lines run close together, it indicates a	slope
5.	The level staff reading taken on a point of known elevation is te	rmed as
	As the distance between the tacheometer and staff increases, the staff intercept by stadia hair	
7.	The size of a theodolite is defined by the of the glower plate	graduated circle of
8.	leveling is done to connect the nearby GS bench mark with project	the starting point o the
9.	survey is conducted to measure the depth of water near the	e shore line
	. The BM established by the Survey of India is known as the	5x2=10 marks
	What are the sources of errors in chain surveying?	
	Differentiate geodetic surveying and Plane surveying	
	Surveyors compass	
4.	Different types of levelling operations	
	Methods of traversing by theodolite	
	What is City Surveying?	
7.	Briefly explain about Planimeter	
swe	er any five questions only:	5x4=20 marks
	 a. Distinguish between closed and open traverse b. The FB of the following lines are given. Find the BB i. AB= 310° 30 ii. BC= 145° 15 iii. CD= 210° 30 iv. DE= 60° 45 v. EF= 0° 45' 	
[he	following reading are successively taken with a level	-

instrument was shifted after the fourth and seventh readings. Prepare a level book and calculate the RLs of different points. The RL of the first point is 255.500 m.

3. What are the characteristics of contour? Explain the methods of contouring

4. Describe the process of measuring the magnetic bearing of a line by theodolite

5. Explain the Trapezoidal and Simpson's rule of computation of areas.

6. Explain the Radiation and Intersection method of Plane tabling.

7. Explain different types of bench marks

Write Essay on Any one :

- a. Different types of leveling operations
 b. Describe a dumpy level along with a sketch
- a. Discuss the methods of tachometry
 b. Explain the theory of tachometry

1x10=10^mmarks