## KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry Degree Programme 2015 Admission II<sup>nd</sup> Semester Final Examination-August-2016

	No: Fmau.1202 : Forest Mensuration (2+1)	Marks: 50.00 Time: 2 hours
I F	ill up the blanks	(10 x 1 =10)
	is the volume of stem measured down to a thin end diam	•
	conversion is usually done and this volume excludes volume of the stum	_
2.	Local volume tables are based on variable (s).	<b>,</b>
•	The density of wood in cross section of the stem shows variation with te from pith to cambium.	••
4.	is the weight of the above ground vegetative matter produ	ced per unit area.
5.	is the height of the crown as measured vertically from the point half way between the lowest green branch and the green branch crown all around.	he ground level to hes forming green
6.	In case of logs lying on ground instrument is easier to u measurement.	se for girth
7	The improvised calipers work based on method.	
/. 0	is the decrease in diameter of a stem of a tree or of a log	r from base
upwards.		
9.	On sloping ground, the diameter at breast height should be measured on side.	tne
10	) is the Prismoidal or Newtons formula to calculate volume	of solid of logs.
II v	Write short notes on ANY FIVE	(5 x 2 =10)
	Improvised calipers.	
	Uses of form factors.	
3.	Single pole method of tree height measurement.	
4.	Haga Altimeter.	
5.	Advantages of calipers.	
6.	Metzgers theory.	
7.	Measurement of solid volume of fire wood .	
III. E	xplain ANY FIVE of the following	(5 x 4 = 20)
1.	How to measure height of leaning trees when observer eye level lies bottom of the tree.	erween the top and
2.	How to calculate volume of crops by Hortig method.	
3.	What is stem analysis? Explain its field work.	
4.	Elaborate on methods to estimate volumes of standing trees.	
5.	How to determine age of single trees when standing? Explain methods.	
6.	List the standard rules governing breast height measurement.	
7.	Define form factor? Explain classes of form factor.	•
	rite essay on ANY ONE	(1 x 10=10)
1.	Define volume table? Write classification of volume tables and prevolume table by graphical method.	paration of general
2.	Define increment? Elaborate on types of increment and relationship MAI.	between CAI and