## KERALA AGRICULTURAL UNIVERSITY B.Sc (Hons.) Forestry 2015 Admission I<sup>st</sup> Semester Final - Examination- March-2016

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Cat. No:Tpbr.1102 Title: Elementary Tree Physiology (1+1)	Marks: 50.00 Time: 2 hours
I Fill up the blanks	(10 x 1=10)
1. First formed stable carbon compound in C3 photosynthetic pa	thway is
2. The size of provacules isthan vacuoles	
3forms ground tissue whileis a	conductive tissue
4andare the components of	water potential
5is a mobile element whilei	s immobile in nature
6. Senescence is(hormone) induced phenomen	
7. Major substrate of respiration in plants is	_
8. Bulk flow of water occurs due toand	gradients
9. High tensile strength of water column in the xylem tissue	due toand
forces	
10. Photo respiration is also called as pathway	
II Write short notes on any FIVE questions	(5 x 2=10)
1. Important organelles of cell	
2. Different types of plant tissue	
3. Structure of water molecules	
4. Source sink relationship	
5. Absorption of water by roots	
6. Juvenile and reproductive phase	
7. Canopy structure	
III Write short essay on any FIVE questions	(5 x 4=20)
1. Structure of water molecules and special properties of water	
2. Environmental effects on growth development	
3. Basic concepts of solar radiation	
4. Canopy structure, phyllotaxis and its importance in translocati	on
5. Enzymes and its classifications	
6. Role of tree in pollution control	
7. Light use efficiency in forest species	

ifferentiate between C3 and C4 photosynthetic pathway escribe three major sets reactions in the respiration pathway