KERALA AGRICULTURAL UNIVERSITY

B.Sc(Hons.) Forestry. 2012 Admission VI th Semester Final Examination-July -2015

Cat. No: Tpbr.3209		Marks: 80
Title: Forest ecophysiology (2+1)		Time: 3 hours
I Fill up the blanks /True or False . (10x1=10)		
a. Tru	e / False	
2	LAI is expressed in units of m ² /g (a); True shade plants are obligate sciophytes (b); Xerophytes are drought avoiding plants (c). Under a canopy the quantity of the solar radiation is reduced while the quality unaltered. (c): Water vapor is a strong absorber in UV range of electromagnetic spectrum (c).	
b. Fill	up the blanks	
7.	Average adiabatic lapse rate is	nm ş •
10.	to form ice.	not low enough
II. Write	er short notes / answers etc. on <u>any ten</u> (10x3=30)	
2. 3. 4. 5. 6. 7. 8. 9.	Crop growth rate NDVI HSP Combatable osmolites LEA proteins Net ecosystem exchange of carbon Phytochrome Growing degree days Differentiate between desiccation postponement and desiccation tolerance Differentiate between sensible heat and latent heat Differentiate between sciophytes and heliophytes	

/fite essays on ANY SIX of the following (645 4 10) Optical properties of leaf Thermoperiodism in plants Differentiate between sun leaves and shade leaves 12345618 Evapotranspiration models for forest canopies Resistance mechanism in halophytes Acclimatisation and adaptation Effect of salt stress on plants Low Temperature stress in plants

Write essay on any ONE Write an essay on plant stress and describe the various abiotic stresses encountered by plants
Describe the methods of estimating potential of evapotranspiration in field

(1x10=10)

2.