

KERALA AGRICULTURAL UNIVERSITY

B.Sc. (Hons.) Forestry 2014 Admission V1th Semester Final Examination-July- 2017

Cat. No: Tpbr 3209 Title: Forest Ecophysiology (2+1)			Marks: 50.00 Time: 2 hours
		Fill in the blanks/State True or False:	(10 x 1=10)
Ι.	1	Translocation of sucrose in trees takes place through tissues.	(10 X 1-10)
	1 2	is an example of sun plant.	
	3	chloroplasts is one of the adaptive feature of shade plants.	
	4	is a growth analysis index to determine the biomass production of	
	-	trees.	
	5	Low chlorophyll to rubisco ratio is a characteristic feature of plants.	
	6	The ratio of photosynthesis to transpiration gives the of trees.	
	7	Elevated CO ₂ concentration the stomatal conductance of trees.	
	8	Photosynthesis of tree crops can be measured using	
	9	Pine forest is an example for Temperate needle forest (T/F)	
	10	Methane is the Green house gas that has a high radiative forcing (T/F)	
I I		Write short notes on any FIVE	(5 x 2=10)
	1	Thermoperiodism.	•
	2	Heat shock proteins.	
	3	Carbon sequestration.	
	4	Stomatal conductance.	
	5	Types of forests.	
	6	Leaf area index.	
	7	Photophosphorylation.	•
ш		Answer any FIVE	(5 x 4=20)
	1	Source – sink relationship.	
	2	Evapotranspiration.	
	3	Halophytes and their tolerance mechanisms.	
	4	Mechanism of photosynthesis in plants.	
	5	Canopy productivity.	. •
	6	Turbulent transfer among forest canopies.	
	7	GPP and NPP of forest stands.	
V		Write essay on any ONE	(1 x 10=10)
	1	Explain the light interception and utilization by sun and shade plants.	(2.7.10 10)
	1	What are the differences between sun and shade plants.	
	_	How is the forest ecosystem classified. Explain the geography and	
	2	climatic factors of the forest ecosystems.	
		Cilliane factors of the forest ecosystems.	
