

KERALA AGRICULTURAL UNIVERSITY B.Sc.(Hons) Forestry 2017 Admission

II Semester Final Examination- August 2018

Bass.1208

2

Climate Science (1+1)

Marks: 50

	•	Time:2 ho	urs
I		Fill in the Blanks (10x1=	<u>:</u> 10
	1	The science investigating the meteorologic, climatologic, and hydrological conditions	
	2	are significant for agriculture is called	
	3	atmospheric temperature. Isobar indicate distribution.	
	4	is the process of exchange of heat and moisture between earth and	
	•	atmosphere over a large period of time (month, season, year) related to large area (zon	_
		state, country).	٠,
	5	Aneroid barometer is used for measuring	
		State true or false	
	6	Concentration of ozone is mainly in the upper layers of atmosphere between 80 and 10 km.	0
	7	Blue colour of the sky and red colour of sunset are due to selective scattering of visible solar spectrum by gas molecules and dust particles.	;
	8	Water vapour content of the air is high in cold areas relative to that in dry areas.	
	9	Cloud cover is expressed by Okta.	
	10	Heat unit concept assumes negative relationship between plant growth and temperature) .
II		Write Short notes on any FIVE of the following (5x2=	10)
	1	Beer's Law	
	2	Structure of the atmosphere	
	3	Lapse rate	
	4	Global warming	
	5	PAR	
	6	La Niña	
	7	Vapour Pressure Deficit	
Ш		Answer any FIVE of the following. (5x4=2	20)
	1	Differentiate between cyclone and anti-cyclone	
	2	Evapotranspiration. Explain the factors influencing evapotranspiration.	
	3	What are the management practices in crop field to combat frost.	
	4	How high temperature cause plant injury	
	5	Net radiation .	
	6	Solar radiation and its form	
	7	Explain the strategy to mitigate GHG emission in agriculture.	
IV		Write an essay on any ONE of the following (1x10=	10)
	1	Why forest is important for food security and sustainable agriculture?	

What is climate resilient forestry and its help in combating climate change?