KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag.Degree Programme 2015 Admission IInd Semester Final Examination- August-2016

Cat. No: Agro.1203	Marks: 50
Title: Irrigation and Water management (2+1)	Time: 2 hours
I. Fill in the blanks:	(10 x 1=10)
1. The fraction of total rainfall useful for meeting the crop water re	equirement is called
2. Irrigation water with <i>S A R</i> more than is not suitabl	e for irrigation.
3. When transpiration exceeds the rate of water absorption the stre	ss is called
4. The method of runoff, collection, storage and recycling is known	as
5 as agrostological measure raising of grasses acros	s the slope and along contou
to conserve the soil moisture.	
6. The soil moisture content at is referred to as perma	nent wilting point.
7. Initial state of soil erosion	
State True or False:	
8. Selection of crops and cropping system is mainly depend on rain	nfall as well as soil character.
9. ET is practically considered as equal to consumptive use.	•
10. Salt content of irrigation water is measured as Electrical conduc	tivity.
II Write short notes on any FIVE	(5 x 2=10)
1. Consumptive use and conjunctive use.	
2. Agroforestry Vs alley cropping.	
3. Dry farming/dry land farming/ rainfed farming.	
4. Tensiometer vs neutron probe.	
5. Reference evapotranspiration vs crop co-efficient.	
6. Irrigation requirement vs water requirement.	
7. How to calculate the expected soil loss.	
III Explain any FIVE of the following	(5 x 4=20)
1. Define drainage and briefly discuss types of drainage.	
2. Explain soil moisture constraints and their importance in irrigation	on. 🗸
3. Watershed management is holistic approach in the development of	of rainfed areas-Discuss in
detail.	
4. What is meant by alternate land use system? Where it is suggeste systems in detail.	d? why? Explain various
5. Briefly explain about land capability classification.	· ·
6. Briefly discuss on different approaches for scheduling irrigation.	•
7. Factors affecting available soil moisture.	•
IV Write essay on ANY ONE	(1 x 10=10)
1. Briefly describe on different types of erosion and factors affecti	
the various soil conservation measures to improve the farming p	
Describe different agro techniques for efficient management of it	rainfed crops.