KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag.Degree Programme 2012 & Previous Admission

IInd Semester Re-Examination- August-2016 ro.1203 Marks: 80

Cat. No: Agro.1203 Title: Irrigation and Water management (2+1)	Time: 3 hours
I Fill in the blanks:	(10 x 1=10)
1 The fraction of total rainfall useful for meeting the crop v	vater requirement is called
. 2 Irrigation water with S A R more than is not	suitable for irrigation.
When transpiration exceeds the rate of water absorption t	he stress is called
4 The method of runoff collection storage and recycling is	known as
5 as agrostological measure raising of grasse	s across the slope and along conto
to conserve the soil moisture	
6. The soil moisture content at is referred to as	permanent wilting point.
7. Initial state of soil erosion	
State True or False:	
Selection of crops and cropping system is mainly depend	on rainfall as well as soil characte
ET is practically considered as equal to consumptive use.	
10. Salt content of irrigation water is measured as Electrical	conductivity.
II Write short notes on any TEN	(10 x 3=30)
Consumptive use and conjunctive use.	6*
Agroforestry Vs alley cropping.	
Dry farming/dry land farming/ rainfed farming.	
 Tensiometer vs neutron probe. 	
Reference evapotranspiration vs crop co-efficient.	
Irrigation requirement vs water requirement.	
How to calculate the expected soil loss.	
Peculation infiltration and seepage.	
Explain various agro techniques for efficient management	nt of rainfed crops.
10. Contour cultivation vs contour bunding.	
11. Write different losses due to soil erosion.	
Explain various alternative landuse systems for rainfed	lands.
III Explain any SIX of the following	(6 x 5=30)
 Define drainage and briefly discuss types of drainage. 	
2. Explain soil moisture constraints and their importance in	irrigation.
 Watershed management is holistic approach in the develo detail. 	pment of rainfed areas-Discuss in
 What is meant by alternate land use system? Where it is s systems in detail. 	suggested? why? Explain various
Briefly explain about land capability classification.	
Briefly discuss on different approaches for scheduling irr	igation.
Factors affecting available soil moisture.	
8. What is meant by soil erosion, types and different forms'	?

IV Write essay on ANY ONE

(1 x 10=10)

 Briefly describe on different types of erosion and factors affecting soil erosion and describe the various soil conservation measures to improve the farming practices.

2. Describe different agro techniques for efficient management of rainfed crops.