KERALA AGRICULTURAL UNIVERSITY B.Sc (Hons.) Ag. 2014 Admission

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II nd Semester Final Examination- July/August-20	015
Cat. No: Agro.1203 Title: Irrigation and Water Management (2+1)	Marks: 50 Time: 2 hours
I Fill up the blanks/Answer the questions as indicated	$(10 \times 1=10)$
with the name given to exchange of heat between growing cr	rop and surrounding dry
fallow whereby hot wind passing through the crop is cooled to give he	
A soil moisture content of 10% on soil volume basis is equivalent to	cm m
3is the name given to water potential due to the adsorpti	on of water to the soil
surfaces	
Removal of excess water from soil through artificial measures is	
Run off occurs because of(splash erosion. sheet eros	
erosion)	
Contour bunds are recommended for areas with slopes from	degree to
degree	
A. Write the full form of SALT	
$\tilde{8}$. Write the formula to find vertical interval VI =	
9. State true or false: Soil moisture at – 8 kPa is not available to plants	
10. State true or false: In mineral soils ,unlike bulk density .particle den	isity can be taken as a
constant value	
Write short notes on any FIVE	$(5 \times 2 = 10)$
What do you mean by SMD (Soil Moisture Deficit)	
Write short note on critical stages of wheat	
3. Write a short note on scheduling irrigation	
Moisture extraction pattern	
Distinguish between watershed area and command area	
Distinguish between soil erodibility and soil erosivity	
Zur Puertroican terraces	
Write short notes on any FIVE	(5 × 4=20)
I. Write a brief essay on the management techniques to improve WUE	of crops
Discuss the importance of soil moisture constants in irrigation manage	gement
3. Write in brief how monitoring of profile moisture changes helps in	decision making for
irrigation management	
What are the advantages of subsurface drainage? Explain various	subsurface drainage
types	

5. Write a brief essay on USLE and tolerable soil loss

Explain various agronomic measures of soil conservation

Define watershed. What are the differences between small watershed and large watershed What are the objectives of watershed management

IV Write essay on ANY ONE

$(1 \times 10 = 10)$

1. Enumerate different approaches for scheduling irrigation and explain in detail c climatologic approach of scheduling irrigation

2. Give a broad classification of soil conservation methods .Explain briefly on various terracing techniques.