

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Ag. 2013 Admission

IInd Semester Final Examination- August-2014

Cat. No: Agro.1203

Marks: 50

Title: Irrigation and Water Management(2+1)

Time: 2 hours

I) Fill up the blanks

(10 x 1=10)

1. India receives major chunk of rainfall from _____ season
2. The soil water potential at permanent wilting point is _____
3. ETP stands for _____

Match the Following

- | | |
|---------------------------|-----------------|
| 4. Highest irrigated area | -Andhra Pradesh |
| 5. Hirakud reservoir | - Orissa |
| 6. Nagarjunasagar | -Punjab |
| | - Karnataka |

True or False

7. Water holding capacity is higher in sandy loam than that in loamy sand
8. Higher the IW/CPE ratio lower the irrigation interval

Define

9. Soil moisture tension
10. SPAC

II Write short notes on any FIVE

(5 x 2=10)

1. Delta and duty of irrigation water
2. Matric potential
3. Effective rain fall
4. Surge irrigation
5. What is moisture sensitive stage .Indicate the stage for maize,groundnut and blackgram
6. Water storage efficiency
7. Differentiate splash and gully erosion

III Write short essays on any FIVE of the following

(5 x 4=20)

1. Factors influencing evapo transpiration
2. Factors affecting crop water requirement
3. Discuss about fertigation
4. Basic concepts and components of watershed management
5. What are the different systems of surface and ground water drainage
6. Factors affecting WUE and discuss agronomic techniques to improve WUE
7. Strategies to manage poor quality water

IV Write essay on ANY ONE

(1 x 10=10)

1. Write in detail about Sprinkler irrigation .Compare the merits and demerits of sprinkler irrigation with that of drip irrigation
2. What is soil conservation. Discuss different methods of soil conservation
