

KERALA AGRICULTURAL UNIVERSITY B.Sc. (Hons.) Ag. 2018 admission II Semester Final Examination-July-2019

Marks: 50 Irrigation and water management (1+1) gro.1203 Time: 2 hours State True or False (10x1=10)I Water use efficiency of crops is not influenced by irrigation methods. 1 Consumptive water use includes percolation loses of water in field. 2 The water requirement of rice crop is 425 mm. 3 Bajra plant cannot be used as an indicator plant for scheduling of irrigation. 4 The field capacity is the characteristic of plant rather than soil. 5 Fill in the blanks Application of herbicide through irrigation water is called..... 6 The moisture which exists between field capacity and wilting point is water. 7 Effective root zone of tomato crops for moisture uptake is up to..... cm. 8 One ha-cm of water is equal tolit. 9 The soil moisture tension at maximum water holding capacity..... atm. 10 Write short notes on ANY FIVE of the following (5x2=10)П Evapotranspiration (ET) 1 2 Drip irrigation 3 Consumptive water use Check-basin method of irrigation. 4 5 Volume wetness. Crop coefficient 6 Conjunctive water use 7 Answer ANY FIVE of the following (5x4=20)III Dissolved salts in irrigation water 1 Write an importance of soil moisture estimation and briefly explain any one of them. 2 Merits and demerits of surface irrigation. 3 Irrigation water management in paddy. 4 Darcy's Law. 5 6 Capillary water. Soil moisture constants. Write an essay on ANY ONE of the following (1x10=10)IV How to improve water use efficiency in crops. 1 Discuss scheduling of irrigation based on IW/ CPE ratio. 2