

KERALA AGRICULTURAL UNIVERSITY B. Sc. (Hons.) Ag. 2017 Admission

II Semester Final Examination-July-2018

Marks: 50 Irrigation and Water Management (1+1) gro.1203 Time: 2 hours (10x1=10)Fill in the blanks: I Direct estimates of evapotranspiration is done by..... 1 Total net irrigated area of Kerala state is..... 2 Porometer is used to measure 3 Hygroscopic water is held with a tension ofatmosphere 4 In India. state has more area under micro irrigation. Match the following \mathbf{B} Deep rooted 6 Wheat а Indicator plant 7 Rice b 2500 mm 8 Cotton С 450mm d 9 Banana Shallow root Sunflower 10 Write Short notes on ANY FIVE of the following (5x2=10)II What is meant by irrigation efficiency and water application efficiency? 1 Write short notes on Kc value 2 List out the types of sprinkler head 3 What is crop water requirement? 4 What are the criteria for selection of irrigation methods Distinguish between gross irrigation requirement and net irrigation requirement Wheat crop requires 45 cm of irrigation water during crop season of 125 days. How much area can be irrigated with a flow of 18 litres per second for 10 hours each day? (5x4=20)Answer ANY FIVE of the following Ш Discuss the importance of irrigation water management 1 Explain about the moisture extraction pattern by plant How is different soil properties influenced root development 3 Briefly explain the component of drip irrigation Describe the importance and types of drainage 5 Difference between ETp and ETo 6 Explain the agronomic practices for the use of poor quality water for irrigation (1x10=10)Write an essay on ANY ONE of the following IV What is irrigation scheduling? Explain different approaches of irrigation scheduling 1

2 Discuss about the different methods of irrigation with neat sketch. Enumerate the merit and demerit of different irrigation method.
