## KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Agriculture 2013 Admission 7th Semester One Time Re-Examination-January-2017

Cat. No: Agro. 1203 Title: Irrigation & Water Management (2+1)	Marks: 50.00 Time: 2 hours
I Fill up the blanks	(10x1=10)
1. Area irrigated by one cusec flow of water is called	
2. Research station under KAU whose mandate is water	management on crops is
INTERNATION NOTES	
3. One cusec flowing water is equal to m <sup>3</sup> per sec	ond
4. The vertical interval in time between water front accalled	dvance and recession is
5. At field capacity, soil moisture is held at a PF of	
6. At permanent wilting point, soil moisture tension Atmosphere.	i is at
7. One hectare cm of water is equal to	
8 Per cent of water is required for physiologic	al functions of the plant
9. When soil dry weight is 20g, wet weight is 25g, bull available water holding capacity at 1m soil depth is	density 1 50 Km <sup>3</sup> the
10. In EI <sub>30</sub> Index, I <sub>30</sub> stands for	cm
II Write short notes on any FIVE of the following	(5x2=10)
1. Land capability classification	
2. Forms of water erosion	
3. IW/CPE ratio	
4. Causes of water logging	
5. Drum culture technique	
6. Drip irrigation	
7. Fertigation	
II Short Essays (Any FIVE)	(5x4=20)
1. Water requirement of crops, components of WR an affecting WR.	

2. Mention the critical stages of irrigation for rice, and discuss briefly the

3. Discuss tensiometric method for estimating soil moisture with a neat diagram.

different irrigation practices for improving water productivity of rice

4. Approaches in watershed management.