Suppli Era 2003/52

KERALA AGRICULTURAL UNIVERSITY

B.Sc.(Hons.) Agriculture – 2008 Admission - IInd Semester Supplementary Examination – March 2010

Title : Irrigation and Water Management (2+1)	Time : 3 hours
I. a. Fill up the blanks	$(10 \times 1 = 10)$
Ultimate gross irrigation potential of India m.ha	
Soil moisture tension for a given soil moisture content is for classifier sandy soil.	ay than that for
3. Crop coefficient is denoted by	
4. Water requirement for rice crop is	
5. Operating pressure required for sprinkler is than that for d	rip.
b. State True or False	
6. Irrigation efficiency of irrigation projects in India is 10 - 20 per cent	
7. Aggregate index of soil irrigability class B is 2-1	
8. Water use efficiency of C ₃ plants is lower than that of C ₄ plants	
9. Compartmental bunding is ex-situ water harvesting method	
10. RSC of irrigation water 1.20 me/L, is suitable for irrigation	· · · · · · · · · · · · · · · · · · ·
II. Write Short notes on <u>ANY TEN</u> (10	$0 \times 3 = 30$
1. Air porosity	
2. Dry farming	
3. Hygroscopic water	
4. Mention dynamics of field water	
5. Effective rainfall	
6. Surge irrigation	
7. Conjunctive use of water	
8. Strip cropping	
9. Puertorican terrace	
10. Mention in-situ water harvesting methods	
11. Alternate land use system	
12. NWDPRA	
III. Write short essays on Any SIX of the following	$(6 \times 5 = 30)$
1. Saturated and unsaturated flow of water in the soil	
2 Factors affecting crop water requirement	

3. Basin method of irrigation

- 4. Irrigation scheduling for sugarcane
- 5. Parameters for assessment of water quality
- 6. Agronomic management practices for soil conservation
- 7. Characteristics of watershed
- 8. Command area development discuss briefly

IV. Write essays on ANY ONE

 $(1 \times 10 = 10)$

- 1. Drip irrigation for coconut
- 2. Discuss soil erosion and its management