

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END EXAMINATION

B.B.A. (Agri.)

Semester : III (New)	Term : I	Academic Year : 2017-18
Course No. : AGRO 233	Title : Irrigation Water Management	
Credits : 2(1+1)	Time : 9.00 to 11.00	Total Marks : 40
Day & Date : Wednesday, 22.11.2017		

- Note :
1. Solve ANY EIGHT questions from SECTION "A".
 2. All questions from SECTION "B" are compulsory.
 3. All questions carry equal marks.
 4. Draw neat diagrams wherever necessary.

SECTION "A"

- Q.1 Define sprinkler irrigation. Give the different components of sprinkler irrigation system.
- Q.2 Enlist methods of water measurement. Write in brief about volumetric method of measurement.
- Q.3 Define water use efficiency and write down measure to be adopted for improving water use efficiency.
- Q.4 Define irrigation and give its importance in Indian Agriculture.
- Q.5 Enlist the types of fertigation equipments. Explain fertilizer tank.
- Q.6 Classify soil water basis of physical forces and describe in brief capillary water.
- Q.7 Define infiltration. Describe factors affecting infiltration rate.
- Q.8 Enlist criteria for scheduling of irrigation. What is the soil moisture approach for scheduling irrigation?
- Q.9 Describe different methods of irrigation.
- Q.10 What do mean by water requirement of crop? Describe in brief factors affecting water requirement.

SECTION "B"

- Q.11 Define the following terms.
- 1) Soil texture
 - 2) Transpiration
 - 3) Adhesion
 - 4) Permeability
- Q.12 Fill in the blanks.
- 1) The size limit of soil particle of medium sand is _____.
 - 2) The average annual rainfall over India is _____.
 - 3) _____ is the most critical growth stage of wheat crop for irrigation.
 - 4) Tensiometer work satisfactory up to _____ atmosphere.

