

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD
SEMESTER END EXAMINATION

B.B.A. (Agri.)

Semester : III (New)	Term : I	Academic Year : 2016-17
Course No. : AGRO 233	Title : Irrigation Water Management	
Credits : 2(1+1)	Time : 9.00 to 11.00	Total Marks : 40
Day & Date : Thursday, 17.11.2016		

- 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 infiltration and describe factors affecting rate of infiltration.
- Q.2 Elaborate the term evapotranspiration and enlist factors influencing it.
- Q.3 Name the methods for measurement of irrigation water and explain the Parshall flume method with diagram.
- Q.4 Define drip irrigation. State the advantages, limitations and components of drip irrigation.
- Q.5 Define irrigation and give its importance in Indian agriculture.
- Q.6 Enlist types of fertigation equipments. Explain fertilizer tank.
- Q.7 Define water use efficiency. Explain factors influencing water use efficiency.
- Q.8 Classify soil water on the basis of physical forces and describe in brief capillary water.
- Q.9 Enlist different soil moisture constants. Explain in brief hygroscopic coefficient.
- Q.10 Write short notes (Any Two).
- 1) Adhesion and cohesion
 - 2) Role of water
 - 3) Water resources in India.

SECTION "B"

- Q.11 Define the following terms.
- 1) Fertigation
 - 2) Seepage
 - 3) Permeability
 - 4) Evapotranspiration
- Q.12 Fill in the blanks.
- 1) The size limit of soil particle of medium sand is _____.
 - 2) _____ of soil is defined as the total volume of soil including particle of pores.
 - 3) _____ is the downward movement of water through the soil profile.
 - 4) The average annual rainfall over India is _____.

