



The Open University of Sri Lanka
Faculty of Engineering Technology
Industrial Studies and Technology Programmes
Final Examination- 2012/ 2013
AEX5232 Soil Plant Water Relationship

Date : 31-07-2013
Time : 0930-1230 hrs
Duration : Two (02) hours

SECTION 2: Answer only Four (04) questions

1.
 - a. What is transpiration?
 - b. List the factors affecting transpiration.
 - c. Explain briefly the methods used to measure transpiration in plants.
2.
 - a. Why does water log in agricultural lands?
 - b. Discuss the advantages of reusing irrigation runoff.
3.
 - a. How does water deficit develop in plants?
 - b. Write an account on effects of water deficit in plants.
4.
 - a. What is meant by irrigation efficiency?
 - b. List the types of irrigation efficiency.
 - c. Discuss the possibility of improving water use efficiency by good soil management practices.
5. Briefly explain the steps of salt absorption process of plants.
6. Write short notes on **any three (03)** of the following.
 - a. Soil water potential
 - b. Measurement of infiltration
 - c. Neutron probe method
 - d. Crop rotation in soil management