



The Open University of Sri Lanka  
Faculty of Engineering Technology

Final Examination- 2006

~~AEX6232~~ Soil plant water relationship

Date : 28-03-2007  
Time : 0930-1230 hours

**SECTION 2: Answer any four (04) questions. All questions carry equal marks.**

- 1 (a) Write a brief account of soil water potential.  
(b) Briefly describe the soil moisture characteristic curve and its importance in irrigation scheduling.
2. Briefly explain the soil constituents and describe briefly the soil physical properties and its influence in agricultural water management.
3. Write a brief note on the water uptake in plants and briefly explain the factors affecting the absorption of water in plants.
4. (a) Briefly explain the importance of transpiration in plant.  
(b) Describe the factors that affect transpiration in plants.
5. (a) Write a brief account of soil salinity and its control  
(b) Briefly explain the soil pollution.
- 6 Write brief notes on any three (3) of the following
  - (a) Soil degradation
  - (b) Water deficit in plants
  - (c) Root functions
  - (d) Specific heat capacity