

Eastern University, Sri Lanka



First Year First Semester Examination in Science 2003/2004  
(November/December, 2004) (Proper)

BT 102, Plant Physiology

Answer All Questions

Time: 01 hr

- 1) a) Compare water conducting tissue with food conducting tissue in plants.  
b) How does the ascent of sap differ from the translocation of solutes in plants?  
c) What is meant the "mass flow theory"? Explain this theory in detail with a physical model, if possible by reference to a tree.
  
- 2) a) Write briefly on "The Emerson photosynthetic enhancement effect"  
b) Discuss the following statements:  
"Photorespiration is light- dependent and Higher intensities of light inhibit CO<sub>2</sub> fixation"