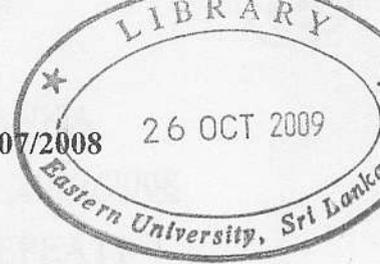


21

Eastern University, Sri Lanka
First Year Second Semester Examination in Science 2007/2008
BT 102 / Plant Physiology
Proper / August - September - 2009



Answer all questions

Time: 02 hours

1. a). List out the theories being involved in the ascent of sap in plants.
b). Comment on the well accepted theory in terms of quantity of translocation, being emphasized by the plant physiologists.

2. Briefly explain the following
 - a) Importance of K^+ ions in the opening and closing of stomata
 - b) Emerson Enhancement effect
 - c) Dark fixation of CO_2 in vascular plants

3. Write shot notes on the following
 - a) Loss of water from the living tissue in plants
 - b) Non cyclic electron transport system
 - c) Importance of photosynthesis

4. a). Outline the biochemical steps in gluconeogenesis metabolism
b). What are the factors affect the above process
c). List out the significance of the glycolate metabolism.