

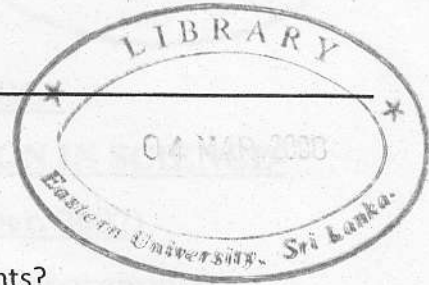
Eastern University, Sri Lanka

First Year 1st Semester Examination in Science – 2005 / 2006 (Proper) (Aug/Sep.2007)

BT 102 – Plant Physiology

Answer all questions

Time: 2 hrs



1.
 - a). What are CAM plants?
 - b). Briefly describe the reaction of CAM plants?
 - c). What is the importance of this pathway in these plants?

2.
 - a). What is photorespiration?
 - b). Name the organelles involved in photorespiration?
 - c). Give the important biochemical steps in glycolate metabolism in plants?

3. Explain the different between the following;
 - a). apoplast and symplast pathway
 - b). photosystem-I and photosystem-II
 - c). guttation and transpiration

4.
 - a). List out the various theories proposed to explain the mechanism of translocation of Solutes in plants.
 - b). Explain the most acceptable theory of translocation of solutes in plants with the help of a physical model relating the parts of the model corresponding parts of a plant.