Eastern University, Sri Lanka First Year 1st Semester Examination in Science – 2005 / 2006 (Proper) (Aug/Sep.2007) BT 102 – Plant Physiology

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