

EASTERN UNIVERSITY, SRI LANKA

First Year, First Semester Examination in Science - 2014/2015 (September, 2016)

BT- 102, Plant Physiology



Time: 2 hours

Answer all questions

1. a. Write the importance of water balance in plants. 30 marks
b. Describe the Potassium ion pump theory for stomatal action. 70 marks

2. Distinguish between the following pairs;
 - a. Water potential and solute potential 33Marks
 - b. Guttation and Imbibition 33Marks
 - c. Apoplast and Symplast 34Marks

3. Write short notes on the following;
 - a. Factors that control the transpiration 50 marks
 - b. Loading and unloading in Phloem translocation. 50 marks

4. a. Write the important roles of light reaction during photosynthesis 30 marks
b. Write an essay on carbon fixation in C4 plants 70 marks