Eastern University, Sri Lanka

First year, First Semester Examination in Science –2015/2016

(July/August-2017)

BT-102 Plant Physiology

(Proper & Repeat)

Answer all question **Time duration: 2 hours**

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1. a) Write the importance of water balance in plants. (30 marks)

   b) Describe the theories of mechanism of Ascent of sap. (70 marks)

2. Distinguish between the following

   a) Guttation and Transpiration (33 marks)

   b) Apoplast and Symplast (33 marks)

   c) Osmosis and Imbibition (34 marks)

3. a) Write an essay on Carbon fixation in C3 plants. (50 marks)

   b) Briefly explain the Cyclic and Non cyclic photophosphorylation in plants . (50 marks)

4. a) Briefly describe the structure of Stomata. (30 marks)

   b) List out different types of stomata with labelled diagrams. (40 marks)

   c) Briefly discuss the environmental factors affecting stomatal action. (30 marks)

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