



Eastern University, Sri Lanka  
First Year Second Semester Examination in Science (Proper) - 2010/2011  
BT-102 / Plant Physiology (June/July-2013)

Answer All Questions.  
Time: 02 hours.

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01. a) Give a diagram to show the typical structure of stomata. (20 marks)  
b) Giving examples list the main types of stomata. (35 marks)  
c) Briefly describe the principle that control stomatal movements. (45 marks)
02. a) What is photorespiration? (25 marks)  
b) Name the organelles involved in photorespiration. (15 marks)  
c) Outline the biochemical process / pathway of photorespiration. (60 marks)
03. Write shots notes on;  
a) Plasmolysis. (33 marks)  
b) Ribulose-1,5-bisphosphate carboxylase. (34 marks)  
c) Complex III present in mitochondrial membrane. (33 marks)
- 04) How would you distinguish between;  
a)  $C_3$  plant and CAM plant. (33 marks)  
b) Cyclic and non-cyclic electron transport in photosynthesis. (34 marks)  
c) Apoplast and symplast. (33 marks)