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EASTERN UNIVERSITY, SRILANKA

FACULTY OF SCIENCE, DEPARTMENT OF BOTANY

FIRST YEAR FIRST SEMESTER EXAMINATION IN SCIENCE - 2012/2013

BT- 102 -PLANT PHYSIOLOGY

Time : 2 hours

Answer All questions

1. a. List out the importance of stomata for water balance of a plant?
b. Briefly explain the Starch – sugar hypothesis in relation to stomata movement?
2. Write shots notes on:
 - a. Calvin cycle.
 - b. Oxidative phosphorylation in plant mitochondria.
 - c. Phloem loading.
3. Distinguish between the following.
 - a. Active transport and Passive transport in plant
 - b. C3 and CAM plant
 - c. Cyclic and Non - Cyclic electron transport
4. Write shots notes on;
 - a. Cohesion – tension theory with respect to xylem transport.
 - b. Ribulose-1,5-bisphosphate carboxylase.
 - c. Role of electron carrier complex in mitochondrial membrane.