

5
* 08 AUG 2001
Eastern University, Sri Lanka

EASTERN UNIVERSITY, SRILANKA

SECOND YEAR FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2000/2001

AGB 2101 - PLANT PHYSIOLOGY

Answer all Questions

Time : 2 hours

1. a) Briefly explain the term 'Field Capacity'.
b) What do you understand by cyclic photophosphorylation?
c) Briefly explain the osmotic theory of root pressure.
d) List the enzymes catalyzing various reactions of the C - 3 photosynthetic pathway.

2. a) Briefly describe the electron transport pathway from H₂O to cyt. b₆ - cyt. f complex in photosynthesis.
b) Discuss the concept and components of water potential.

3. Briefly explain the CO₂ fixation process in C - 4 plants.

4. Write short notes on the following:
 - a. Photorespiration
 - b. ATP synthase
 - ✓ c. Guttation
