



EASTERN UNIVERSITY, SRI LANKA
EXTERNAL DEGREE IN AGRICULTURE

SECOND YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2005/2006

AGB 2101: PLANT PHYSIOLOGY

END SEMESTER EXAMINATION

Answer **all** questions

This paper should be answered in **English**.

Time: **One** hour

1. a) Describe the process of cyclic-photophosphorylation in plants
with suitable diagrams. (20 points)
- b) Write down the mechanism of 'phloem transport' in plants. (15 points)
- c) Briefly explain the benefits of photorespiration to plants. (10 points)

2. a) Outline the process of CO₂ fixation in CAM plants. (25 points)

- b) Explain the following:
 - (i) Water potentials in plant cells. (15 points)

 - (ii) 'Sink-Source' relationship in plants. (15 points)

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