

UVA WELLASSA UNIVERSITY OF SRI LANKA
FACULTY OF ANIMAL SCIENCE & EXPORT AGRICULTURE

BSc in Export Agriculture
BSc in Tea Technology and Value Addition
BSc in Palm & Latex Technology and Value Addition
First Year First Semester Examination – Academic Year 2020/2021

Principles of Crop Physiology (EAG 114-2)
Section III – Essay Questions

Instructions:

Answer all questions in the given booklet.

No. of questions : Two (02)

No. of pages : One (01)

Time : One (01) hour

Total marks allocated : 50%

01. (I) Describe the three (03) parallel pathways for movement of water and ions from soil to the xylem within the root (Radial Flow).

(15 marks)

(II) Describe the mechanism of water movement from root to the leaf through xylem (Evaporation-Tension-Cohesion Mechanism).

(10 marks)

02. Plants have evolved three photosynthetic pathways, namely, C₃, C₄ and CAM. Discuss the differences and similarities among C₃, C₄ and CAM photosynthetic pathways.

(25 marks)

[End of Section III]