



Uva Wellassa University
Faculty of Animal Science and Export Agriculture
BSc in Palm & Latex Technology and Value Addition



**Uva Wellassa
University**

End Semester Examination - September/October 2013
Year I Semester II

Principles of Crop Physiology (PLT 152 -1)

Instructions

Answer **two (02)** questions only

No. of question : Three (03)

No. of pages : One (01)

Time : Thirty minutes

Total marks allocated : 50 %

Part III – Essay

Question 01

(25 marks)

Write **short** descriptions on **two (02)** of the following;

- a. Drought avoidance adaptations of plants
- b. Factors affecting on transpiration
- c. Crop Growth Rate (CGR)

Question 02

Briefly explain how the molecular reactions of photosynthesis transform light energy into chemical bond energy. Indicate the relationship between chloroplast structure, light and dark reactions.

(25 marks)

Question 03

- a. Describe the components of water potential, highlighting the importance of the water potential concept in plant physiology. (12.5 marks)
- b. Using an appropriate diagram, **briefly** explain how assimilates are transported from a source to a sink. (12.5 marks)