



**Uva Wellassa University**  
**Faculty of Animal Science and Export Agriculture**  
**BSc in Palm & Latex Technology and Value Addition**  
**End Semester Examination - September/October 2012**



**Year I Semester II**  
**Principles of Crop Physiology (PLT 152 -1)**

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**Instructions**

**Answer any two (02) questions.**

No. of question : Three (03)

No. of pages : One (01)

Time : Thirty minutes (30 min.)

Total marks allocated : 50 %

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**Part III – Essay**

**Question 01**

**(25 marks)**

Write short descriptions on two (02) of the following:

- a. Factors affecting on transpiration
- b. Physiological basis of crop yield improvement
- c. Relative Growth Rate (RGR)

**Question 02**

**(25 marks)**

- i. Discuss **major** differences between C3 and C4 photosynthetic pathways.
- ii. Briefly discuss stages of cellular respiration.

**Question 03**

**(25 marks)**

- i. Define the following terms which related to plant physiology;
  - a. Sink
  - b. Source
- ii. Briefly explain how assimilates are transported from a source to a sink.