

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

End Semester Examination – August/September 2014
Year II Semester II



Advanced Crop Physiology PLT 251-2

Instructions

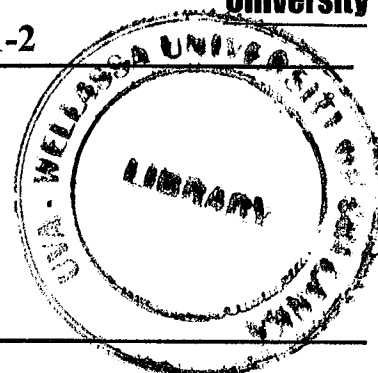
Answer Two (02) questions only

No. of questions : Four (04)

No. of pages : Two (02)

Time : One hour (01)

Total marks allocated : 40 %



Part II – Essay

Question 01

Write short descriptions on two (02) of the following

- a. Physiology of seed germination in coconut
- b. Novel equipments used in physiological studies in coconut
- c. Photoperiodic responses of coconut

(20 marks)

Question 02

Describe the key physiological and environmental factors affecting transpiration in crop canopies of rubber and coconut trees with aid of Penman-Monteith equation.

(20 marks)

Question 03

- a. Explain three (03) main components/sections distinguished in latex after centrifuging.
- b. Briefly explain the tapping system of S/4 (RG) d3 8m(MAY-DEC)/12; S/4U d3 4m (JAN-APR)/12.

(20 marks)

Question 04

- a. Explain the principle behind the Infra-Red Gas Analysis (IRGA) with the emphasis on its practical use in physiological studies.
- b. Infra-Red Gas Analysis (IRGA) is significantly interfered by the presence of water vapour in the air. Briefly discuss the statement and explain methods used in commercial IRGA to avoid this problem.

(20 marks)