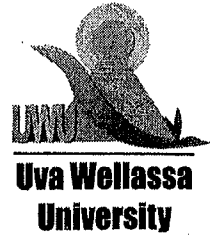


Uva Wellassa University
Faculty of Animal Science & Export Agriculture
BSc in Export Agriculture



Final Semester Examination - September/October 2013
Year III Semester II

Applications of Tissue Culture (EAG 314 -2)

Instructions

Answer **all** the questions

No. of question : Three (03)

No. of pages : One (01)

Time : One hour (1 hr)

Total marks allocated : 100%

Part II – Essay

Question 01

(20 marks)

- a. Discuss different types of mutations which can occur in a plant cell.
- b. Write short notes on **two (02)** of the following;
 - I. Induced mutation
 - II. Chemical mutagens
 - III. Somaclonal Epigenetic changes

Question 02

(40 marks)

Describe the application of somaclonal variation as a technique in developing crops resisted for abiotic stresses.

Question 03

(40 marks)

“Tissue culture is an important technology for developing countries which is often used for micropropagation in commercial production of plants as well as for plant research. Its application only requires a sterile workplace, nursery, green house, and trained skilled manpower. Unfortunately, there is no sufficient large scale commercial applications and research progress of tissue culture techniques in Sri Lanka.

Highlighting the potentials, limitations and suggestions, critically evaluate the above comment.