



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

Final Semester Examination - August/September 2014
Year III Semester II



Applications of Tissue Culture EAG 314 -2

Instructions

Answer Two (02) questions only

No. of question : Three (03)

No. of pages : One (01)

Time : One hour (1 hr)

Total marks allocated : 50%

Part II – Essay

Question 01

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

- a. Surface sterilization of explants
- b. Embryo rescue
- c. *In vitro* conservation of germplasm.

(25 marks)

Question 02

Discuss the use of *in vitro* techniques;

- a. to produce somaclonal variants for abiotic stresses
- b. to produce pathogen free plants

(25 marks)

Question 03

“The combination of *in vitro* culture and mutation techniques provides a fast and highly efficient method to improve the floricultural crops. Unfortunately, there is no sufficient large scale commercial applications and research progress of above techniques in floriculture sector in Sri Lanka”.

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

(25 marks)