

Eastern University, Sri Lanka

Final Year First Semester Examination in Agriculture 2010/2011

(Dec/Jan 2012/2013)

CSC 4111: Plant Tissue Culture: Principles and Techniques

Time allowed: 1 hr

Answer all questions

1. a) List the advantages of *in vitro* culture in Agriculture. (10 marks)
- b) Describe the factors that determine the development of somatic embryos and their subsequent germination under *in vitro* conditions. (40 marks)

2. a) What is meant by the term 'artificial plant seeds'? How do you prepare them by using a dropping method? (20 marks)
- b) Write short notes on the following
 - I. Somaclonal variation (15 marks)
 - II. Shoot tip culture (15 marks)