

Eastern University, Sri Lanka

Final Year First Semester Examination in Agriculture - 2012/2013

(March/April 2015)

CC 4102: Biotechnology

Time allowed: 2 hrs

Answer all questions

1. Briefly describe,
 - a. DNA replication (13 marks)
 - b. Biogas production (12 marks)
2. Discuss the different stages of micropropagation of ginger plant under *in vitro* conditions with suitable diagrams. (25 marks)
3.
 - a. Give the biosafety measures in the Tissue Culture laboratory. (10 marks)
 - b. Briefly explain the advantages and disadvantages of *in vitro* culture techniques in Agriculture. (15 marks)
4. Write short notes on following
 - a. DNA Cloning (09 marks)
 - b. Establishment of shoot culture (08 marks)
 - c. Methods of sterilization (08 marks)