

Eastern University, Sri Lanka

Final Year First Semester Examination in Agriculture, 2008/2009 R Y

★ (Oct/Nov, 2010) ★

11 FEB 2010

Eastern University, Sri Lanka.

CC 4102: Biotechnology

Time allowed: 2 hrs

Answer all questions

1. a) Industrial biotechnology plays an important role in country's socio-economic development. Comment on this statement.
b) With illustrations, give the basic steps involved in DNA cloning using Plasmids.
2. a) Describe the process of Transcription in Eukaryotes.
b) Briefly explain the factors that affect the establishment of shoot culture of Cashew under *in vitro* conditions.
3. a) Give the Primary cell lines in animal cell culture.
b) What are the benefits of natural media used in animal tissue culture?
c) Mention the methods of producing transgenic animals.
4. Write short notes on following:
 - a) Production of Lactic acid
 - b) Structure of Nucleic acids
 - c) Microbial Pesticides