

Eastern University, Sri Lanka

Final Year First Semester Examination in Agriculture - 2010/2011  
(Jan/Feb 2013)

CC 4102: Biotechnology

Time allowed: 2 hrs

Answer all questions

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1. Explain the process for micropropagation of a known plant species under aseptic conditions with suitable illustrations. (25 marks)
2. Briefly discuss,
  - a. Steps involved in constructing gene library. (13 marks)
  - b. Importance of QTL mapping in molecular breeding. (12 marks)
3. Briefly describe,
  - a. Genetically modified foods (13 marks)
  - b. Formation of a recombinant plasmid (12 marks)
4. Write short notes on following
  - a. Mycorrhiza as biofertilizers (09 marks)
  - b. Applications of transgenic animals (08 marks)
  - c. Specialized transduction of bacteria with diagrams (08 marks)