

# EASTERN UNIVERSITY, SRI LANKA

Fourth Year First Semester Special Degree Examination in Science (Botany)

2002/2003 (March, 2004)

## BT 409- Population Biology and Weed Ecology

Answer All Questions

Time: 03 hours

1. Give a brief account on "Life tables in Population Biology".  
(100 marks)
2. Explain the different types of interactions between organisms and list the conditions needed to establish competition between organisms.  
(100 marks)
3. Explain the principles and significance of additive, replacement and removal experiments in Population biology.  
(100 marks)
4. Give a brief account of
  - a) Guerilla and Phalanx strategy in plants (50 marks)
  - b) Scientific principles in traditional weed control practices (50 marks)
5. An exponential growth model does not realistically represent the growth of a population. – discuss this statement.  
(100 marks)
6. "Weeds are not a taxonomic group but an ecological one" - explain.  
(100 marks)

