

**Eastern University, Sri Lanka**  
**Special Degree Examination in Science (Botany) – 2005/06 & 2006/07**  
**BT 408 – Population Biology and Weed Ecology**

Answer all questions.

Time: 3 hrs



1. **What are life cycles?**  
**Explain how they have been used for the study of populations.**
2. **Give a brief account of;**
  - a). **additive experiments.**
  - b). **replacement series experiments.**
3. **Explain competition in Plants.**  
**How does various forms of competition facilitate evolution?**
4. **What are weeds?**  
**Explain the cultural practices employed in the eradication of weeds indicating the possible scientific reasons for them.**
5. **Give a brief account of the followings:**
  - a). **concept of an 'individual' had varied meaning in ecology.**
  - b). **guerrilla and phalanx strategies facilitate survival.**
6. **Give brief notes of the following**
  - a). **seed banks in soil.**
  - b). **Invasive Plants in Sri Lanka.**