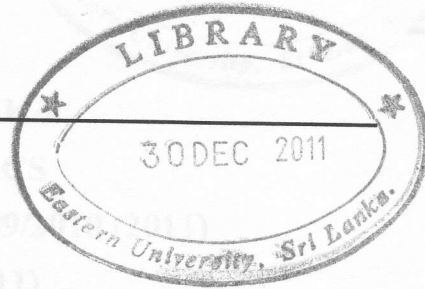


Eastern University, Sri Lanka
Special Degree Examination in Science (Botany) – 2005/06 & 2006/07
BT 408 – Population Biology and Weed Ecology

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.