



RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES, MIHINTALE

B.Sc. (Special) Degree in Applied Biology
Fourth Year – Semester II Examination – April/May 2015

ZOO 4201 - INSECT DIVERSITY AND CONSERVATION

Time: Two (02) hours

Answer four (04) Questions.

1.
 - a) Discuss the challenges encountered in the formulation of strategies for insect diversity conservation.
 - b) Mention the legal aspects of pollinator conservation in Sri Lanka.

2.
 - a) Write a brief account on the sampling techniques that can be employed for assessing aerial insect populations.
 - b) List the nine Red List categories and briefly describe the criteria employed in assigning a taxon to these categories.

3.
 - a) Explain the major types of associations found in insect populations.
 - b) State the special characteristics of social insects.

4. "Food habits of insects are more diverse than that in any other animal group"
Answer the following with reference to the above statement.
 - a) Describe the morphological diversity of insect mouthparts in relation to diverse food habits.
 - b) Explain how larval food habits of the Order Coleoptera differ from those of the adults.

- 5 Write short notes on the following.
- a) Linear reduction of insect populations
 - b) Breathing processes of aquatic insects
 - c) Types of insect larvae based on their body shape
 - d) Simpson's diversity index