

The Open University of Sri Lanka
 Department of Zoology
 BSc Degree Programme
 Academic year 2015 / 2016
 Level 5
 Course title – Insect Biology
 Course code – ZLU3186 / ZLE5186
 Final Examination



Date – 17/7/2016

Time –9.30 am – 11.30 am

Answer any four (04) questions.

Wherever necessary illustrate your answers with clearly labeled diagrams

1. Explain how biological factors and natural environmental factors influence population density of dipteran larvae living in aquatic habitats. (100 marks)
2. Comment on the biology, ecology and economic importance of mining and gall forming insect herbivores. (100 marks)
3. Explain the morphological and physiological adaptations of insects to terrestrial habitats. (100marks)
4. a) Compare and contrast the types of post embryonic development in insects. (70 marks)
 b) Outline the endocrine control of moulting and metamorphosis of endopterygote insects. (30 marks)
5. a) Summarize the threats to insect biodiversity in tropical habitats. (40 marks)
 b) Discuss the merits and demerits of captive breeding of insects. (60 marks)
6. Write short notes on any **three (3)** of the following;
 - a) Compound eye of insects
 - b) Insect collection methods.
 - c) Insect wings and wing modifications.
 - d) Secondary defense mechanisms of insects.

(100marks)