



The Open University of Sri Lanka
Department of Zoology
BSc Degree Programme – Level 5
Course title – Insect Biology
Course code – ZLU3186 / ZLE5186
Final Examination – 2013 / 2014

Date – 18th May, 2015

Time – 9.30 – 11.30 am

Answer any **four (04)** questions.

Wherever necessary illustrate your answers with clearly labeled diagrams.

1. Giving examples discuss the different types of mouthparts of insects and their modifications related to function. (100 marks)
2. a) Describe the generalized structure of the digestive system of insects. (40 marks)
b) Explain the adaptive modifications found in the digestive systems of solid and sap feeding insects. (60 marks)
3. a) Using **one (1)** example explain the process of post embryonic development of an endopterygote terrestrial insect. (50 marks)
b) Explain the endocrine control of moulting and metamorphosis of endopterygote insects. (50 marks)
4. “Insects are the largest animal group in Kingdom Animalia” Justify this statement explaining **eight (8)** different reasons. (100marks)
5. Write a concise account on “Insect parasitoids and their effectiveness in pest management”. (100marks)
6. Write short notes on any **three (3)** of the following ;
 - a) Termites
 - b) Haemocytes in insects
 - c) Insect epi-cuticle
 - d) *Aedes aegypti*(100marks)