



**RAJARATA UNIVERSITY OF SRI LANKA  
FACULTY OF APPLIED SCIENCES, MIHINTALE**

**B.Sc. (General Degree) in Applied Sciences  
Second year – Semester 1 Examination - April /May 2016**

**BIO 2110 - GENERAL ENTOMOLOGY**

**Time: One and half (1½) hours**

**Answer any three (03) questions.**

- 1 a) Draw a diagram of the Central Nervous System of an insect and describe briefly its major parts with their functions
- b) Describe with diagrams five different types of antennae found in insects with one example of each.
- 2 a) Discuss structure of the eye and physiology of vision in insects. Make sure in your discussion you also touch upon the following subjects
  - capabilities for color discrimination
  - mechanism of image formation
  - what insects can actually see and also the quality of vision in comparison to that of human eye?
- b) Define metamorphosis and mention the types of metamorphosis found in insects with examples.
- 3 a) Describe some of the methods used by aquatic insects for acquiring oxygen for respiratory functions.
- b) Outline the salient character of Class Insecta.
- 4 Explain the following
  - a) evolution of insect body
  - b) salient features of Phylum Arthropoda
  - c) malpighian tubules
  - d) labial glands
  - e) insect cuticle

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