



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

**B.Sc. (General) Degree in Applied Science
First Year – Semester II Examination - February/March 2019**

ZOO 1203 – GENERAL ENTOMOLOGY

Time: Two (02) hours

Answer FOUR (04) questions.

1. a) Describe the features that are characteristic to insects paying special emphasis to *unique specializations* not shared with other related arthropod groups. **(11 marks)**
 b) Outline the distinct features of insects that have contributed to their success on earth. **(14 marks)**

2. Describe the evolutionary process of tagma formation with regard to the three major regions of the insect body, and outline the functional significance of each body region. **(25 marks)**

3. With the aid of suitable diagrams, describe the structure of the insect integument, and comment on the sequential changes that occur during and after molting. **(25 marks)**

4. a) Describe, with the aid of labeled diagrams, three major types of neurons present in the insect body. **(09 marks)**
 b) Outline the three major categories of neurons based on their functions **(16 marks)**

5. Mention two unique characters found in each of the following Orders/Suborders of insects.

Order Isoptera

Order Dermaptera

Suborder Homoptera

Order Thysanoptera

Order Lepidoptera

(05x05 marks)

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