



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

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

**ZOO 2202 – GENERAL ENTOMOLOGY**

**Time: Two (02) hours**

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**Answer FOUR (04) questions.**

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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 found in insects. **(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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