



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

**B.Sc. (General) Degree in Applied Sciences  
First year – Semester I Examination – May/June 2016**

**BIO 1202 - ANIMAL DIVERSITY I**

**Index No.:**

**Time: Two (02) hours**

**Answer question 1 (compulsory) and three other questions of your choice.**

1. a) Describe what is radial symmetry and name two phyla that show this type of body symmetry.

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**(20 marks)**

- b) Contrast radial symmetry to biradial symmetry.

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**(24 marks)**

- c) Briefly explain the advantages of having a bilaterally symmetric body.

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(24 marks)

- d) Bilateral symmetry is strongly associated with cephalization. Briefly explain why this is?

(32 marks)

2. Compare and contrast the basic structure and body organization of Cnidarians and Ctenophores.
3.
  - a) Describe the characteristic features of the Platyhelminthes.
  - b) Distinguish the different classes of Platyhelminths using the major characteristics of each class.
4. Insects are the most biologically diverse and successful group of arthropods. Describe their basic arthropod features, with special reference to the adaptations and features that lead to their success.
- 5) Write short notes on any three (4) of the following.
  - a) Class Asteroidea
  - b) Locomotion in Protista
  - c) Protostomes and Deuterostomes
  - d) Gastropoda
  - e) Metameric segmentation