



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

**B.Sc. (General) Degree in Applied Sciences
First Year - Semester II Examination – November/December 2016**

BIO 1206 – ANIMAL DIVERSITY II

Time: Two (02) hours

Answer (04) four questions.

Illustrate your answers with suitable diagrams where appropriate.

1. a) Briefly discuss the characteristic features of Gnathosmata.
b) Give the characters which are used to distinguish fish belonging to Agnathans and Gnathosmata.
b) Describe the diversity of scale types in fish.
2. Amphibians are the first vertebrates to colonise land. Describe the adaptive features that led them colonise land and diversify.
3. Using anatomical features of snakes, prove that the snakes are the most derived of all reptilian groups.
4. a) Outline the features that can be observed in Archaeopteryx skeleton that are common for both reptiles and birds.
b) Illustrate the structure of bird wing and explain how the wing shape correlates its nature of flight.
c) Briefly describe the **four** basic forms of bird wings with suitable examples.

5. a) Succinctly describe the soft tissue characteristics that differentiate mammals from other chordates.
- b) Briefly comment on the behaviour and ecology of monotremes.

END