



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION AND BACHELOR OF SCIENCE

SZL 200: VERTEBRATE ZOOLOGY

DATE: THURSDAY, 24th NOVEMBER 2011 TIME: 11.00 A.M - 1.00 P.M

INSTRUCTIONS:

Answer **ALL** questions from Section A and **ONE** question from Section B within a section all questions carry equal marks. Illustrate your answers with diagrams and give examples whenever appropriate.

SECTION A (40 marks)

Answer ALL questions.

1. Explain how *amphioxus* obtains its food.
2. Describe briefly the digestive system of a tunicate.
3. Explain how cyclostomes differ from other vertebrates
4. Outline adaptations of the dog shark's (*squalus acanthias*) intestine to its function.
5. Describe briefly the structure of the heart of teleost fish.
6. Describe the structural components of the pectoral girdle of Class Aves.
7. Outline dentition in mammals.
8. Distinguish between the following:
 - a. Ovoviviparous and oviparous
 - b. Heterocercal and diphyccercal
 - c. Poikilothermal and homoiothermal

SECTION B(30 marks)

Answer ONE question.

9. Describe the circulatory system of *Amphioxus*.
10. Explain in details the general characteristics of Class *Amphibia*.
11. With the aid of diagrams, describe in detail the reproductive systems of birds.
