



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

INSTITUTE OF OPEN, DISTANCE AND E-LEARNING

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

SZL 200: VERTEBRATE ZOOLOGY

DATE: Thursday 15th December, 2011

TIME: 11.00 a.m. – 1.00 p.m.

INSTRUCTIONS

Answer ALL questions in Section A and any ONE question in Section B. Illustrate your answers with diagrams and give examples wherever appropriate.

SECTION A

Answer ALL questions – (40 marks)

1. Describe the functions of the Proboscis in “acornworm”.
2. State the functions of swimbladder in bonyfishes.
3. Describe three specialized features of birds excretory system.
4. Describe briefly how salamanders are adapted for their mode of life.
5. Explain the structure and function of plumulae in birds.
6. Distinguish between Trigon and Trognid molars.
7. Justify inclusion of amphioxus in phylum chordata.

8. Describe briefly the following structures;

- (i) Cirri
- (ii) Crop
- (iii) Amnion
- (iv) Gizzard

SECTION B

Answer any ONE question (30 marks)

9. Give a detailed account of the digestive system and its associated glands in amphibians.

10. Describe in detail the following in Ascidians.

- (i) The reproductive system
- (ii) Metamorphosis

11. Explain in detail how teleost and lobe-finned fishes are adapted to their aquatic life.

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