

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

SECOND SEMESTER 2022/2023

[JANUARY-APRIL, 2023]

ZOOL 103: VERTEBRATE ZOOLOGY

STREAM: Y1S2 TIME: 2 HOURS

DAY: FRIDAY, 12:00 - 2:00 PM DATE: 31/03/2023

INSTRUCTIONS

1. Do not write anything on this question paper.

2. Answer question ONE and any other TWO questions in Section B.

SECTION A

1. Discuss the evolutionary scenarios of chordates (5marks)

- 2. In tabular format, compare and contrast the old and modern fish (amphibians) (5marks)
- 3. Discuss the trends that shaped chordate evolution (5marks)
- 4. Define the following terms (5marks)
 - a) Morphological couvergence
 - b) Radiometric dating
 - c) Tetrapod
 - d) Cloaca
 - e) Monotreme
- 5. Give a detailed account on the general characters of chordates (5marks)
- 6. Explain the distinguishing features between reptiles and aves. (5marks)
- 7. Do similarities in body form and parts indicate on evolutionary relationship. (5marks)
- 8. What are amniotes. (5marks)

SECTION B

- 9. Discuss trends that shaped chordate evolution (15marks)
- 10. Explain Garstangs hypothesis and Paedomorphosis. How are the two related in evolution (15marks)
- 11. Explain the unifying invertebrate traits (15marks)