



(Knowledge for Development)

KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR

FOURTH YEAR SECOND SEMESTER
MAIN EXAMINATIONS

FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY

COURSE CODE: SZL 122/SZL 225

COURSE TITLE: VERTEBRATE ZOOLOGY

DATE: FRIDAY 29TH, JULY 2022. **TIME:** 8:00 – 10:00 A.M

INSTRUCTIONS TO CANDIDATES

Answer Question one (1) and any other two (2) Questions. Question one is compulsory and carries 30 marks, the other Questions carry 20 marks each.

TIME: 2 Hours

This paper consists of 2 printed pages. Please Turn Over



KIBU observes ZERO tolerance to examination cheating

QUESTION ONE

- [a] Define the following terms
 - [i] Karyology (4 Marks)
 - [ii] Anatomy (4 Marks)
 - [iii] Ungulates (2 Marks)
 - [iv] Viviparity (3 Marks)
- [b] List four (4) molecular taxonomic attributes (2 Marks)
- [c] State two (2) respiratory structures in fishes (3 Marks)
- [d] Outline three [3] forms of physiological responses to adverse conditions. (2 Marks)
- [e] Distinguish between monotremes and marsupials (4 Marks)
- [f] Enumerate four [4] functions of systematics (4 Marks)
- [g] List four [4] characteristics of bonny fishes (2 Marks)
- [h] Account for occurrence of pouched mammals in Australia. (3 Marks)
- [i] How does cryptic colouration provide defense in reptiles. (2 Marks)
- [j] Differentiate between endotherms and ectotherms. (2 Marks)

QUESTION 2

Describe adaptations of Aves to their mode of life. (20 Marks)

QUESTION 3

Discuss the significance of Mammals to human economics (20 Marks)

QUESTION 4

Write an essay on class Amphibia. (20 Marks)

QUESTION 5

Describe reproduction in Pisces. (20 Marks)