

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2023/2024 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATIONS

FOR

BACHELOR OF EDUCATION (SCIENCE)

ZOO 2209: VERTEBRATE ZOOLOGY

DATE:

TIME:

Instructions

A. Answer ANY TEN (10) questions.

B. Illustrate your answers with diagrams and give examples where appropriate.

ANSWER ANY TEN (10) QUESTIONS (50 MARKS)

2.

3.

1. Define the following terms as used in the study of Vertebrates;

a) Paedomorphosis	(1 mark)
b) Parthenogenesis	(1 mark)
c) Neoteny	(1 mark)
d) Viviparity	(1 mark)
e) Preening	(1 mark)
Give five similarities of protochodates and chordates	(5 marks)
Discuss the Importance of vertebrates in life.	(5 marks)

4. State and explain the differences between ray finned and lobe finned fishes.

(5 marks)

5. Describe morphological features that pint to the fact that birds are glorified reptiles.

	(5 marks)	
6. Distinguish between the extant orders of amphibians.	(5 marks)	
7. Give five aspects of the economic importance of mammals.	(5 marks)	
8. List five functions of the mammalian skin.	(5 marks)	
9. Explain the current zoogeographical distribution of the fauna of various vertebrates.		
	(5 marks)	
10. Classify reptiles into the various taxonomic orders giving the distinguishing features of		
each.	(5 marks)	
11. Outlinethe processes that led to the evolution of the vertebrates.	(5 marks)	
12. Construct a scientific key that can be used to identify the classes of vertebrates.		

(5 marks)

13. Distinguish between prototheria and eutherian mammals. **(5 marks)**

14. Give the general structure of the bony fishes.

(5 marks)

15. Describe the anatomical features of urochordates that ideally places them in the general

grouping of fishes

(5 marks)

_____ENDS______