



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
SECOND YEAR SECOND SEMESTER**

**BACHELOR OF SCIENCE
BACHELOR EDUCATION (SCIENCE)**

**COURSE CODE: ZOO 2209
COURSE TITLE: VERTEBRATE ZOOLOGY**

DATE: 17/4/2023

TIME: 1430-1630 HRS

INSTRUCTIONS

Answer **ANY TEN** questions.

Illustrate your answers with suitable diagrams and give appropriate examples wherever necessary

ANSWER ANY TEN (10) QUESTIONS.

1. Explain the factors that cause migration in vertebrates. **(5marks)**
2. Outline the economic importance of amphibians. **(5marks)**
3. State the similarities unique to reptiles and aves. **(5marks)**
4. Describe five modes of nutrition in mammals. Give examples. **(5marks)**
5. State the advantages accorded by the dorsal hollow nerve cord. **(5marks)**
6. Describe the structure of amniotic egg and explain how it is adapted for terrestrial life. **(5marks)**
7. Discuss anatomical modification in bird's that enhances flight. **(5marks)**
8. Discuss **TEN (10)** functions of the mammalian skin. **(5marks)**
9. Give an account of echinoderms as ancestors of chordates. **(5marks).**
10. Discuss the function of swim-bladder in fresh water bony fishes. **(5marks)**
11. Explain the term endothermy and state its advantages and disadvantages in mammals. **(5marks)**
12. Illustrate the three types of a dichotomous key. **(5marks)**
13. Write an essay on the methods of research in vertebrates.**(5marks)**
14. Compare and contrast the sub-phylums Uro-chordata and Cephalo-chordata **(5marks)**
15. Highlight **TEN (10)** the economic importance of vertebrates. **(5marks)**

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