



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2021/2022 ACADEMIC YEAR**

**FIRST YEAR SEMESTER ONE**

**SCHOOL OF NATURAL RESOURCES, TOURISM  
& HOSPITALITY**

**CERTIFICATE IN TOURISM AND WILDLIFE  
MANAGEMENT**

**COURSE CODE: CTW 006**

**COURSE TITLE: NATURAL HISTORY OF  
BIRDS & MAMMALS**

**DATE: 28<sup>TH</sup> MARCH, 2022**

**TIME: 1430-1630**

**INSTRUCTION TO CANDIDATES:**

Answer **ALL** questions in section A and any other **THREE** in section B.

*This paper consists of 2 printed pages. Please turn over*

**Section A: Answer all questions (25 marks)**

1. A) Explain what are fossil records **(2 marks)**  
B) Highlight the importance of fossil records in tracing birds and mammal's evolution **(3 marks)**
2. Giving example, explain the following terms as used in study of natural history of birds and mammals **(5 marks)**
- i) Homologous structures/organs
  - ii) Biogeography
  - iii) Binomial nomenclature
  - iv) Taxa
  - v) Extinction
3. Briefly discuss the evidences that shows most living organisms originated from a common ancestor **(5 marks)**
4. Highlight characteristics that differentiate mammals from other vertebrates **(5 marks)**
5. Explain the differences between white and black rhinos **(5 marks)**

**Section B: Answer any three questions (45 marks)**

6. Citing examples briefly identify the socio-economic and ecological benefits of birds and mammals in Kenya **(15 marks)**
7. a) With examples, briefly explain the threats to the conservation of birds and mammals in Kenya. **(10 marks)**  
b) Give any remedial interventions that can be used to address some of these challenges **(5 marks)**
8. Discuss the characteristics that makes birds different from other Organisms **(15 marks)**
9. Discuss any four Kenyan habitats while naming two species found in them **(15 marks)**

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