



MAASAI MARA UNIVERSITY

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

**SCHOOL OF NATURAL RESOURCES, TOURISM
& HOSPITALITY
DIPLOMA IN TOURISIM AND WILDLIFE
MANAGEMENT**

**COURSE CODE: NDTW 114
COURSE TITLE: NATURAL HISTORY OF
MAMMALS**

DATE: 14TH DECEMBER, 2022

TIME: 1430-1630

INSTRUCTIONS TO CANDIDATES

Answer **All** the Questions in Section A and any **THREE** IN SECTION B

SECTION A (25 MARKS)

1. Define the following terms as relates to mammals, giving an example of each
(i) A lek; (ii) Systematics; (iii) Mammalian anatomy and physiology; (iv) Fossorial; (v) Ethology **[5 marks]**

2. Briefly describe the chronology of events leading to the evolution of mammals, differentiating between mammal-like reptiles and present-day mammals **[5 marks]**

3. The African Elephant (*Loxodonta africana*) belongs to the family - Elephantidae. Classify the species according to the Hierarchy of Categories starting with Kingdom to Species **[5 marks]**

4. (a) How is Order Perissodactyla and Order Artiodactyla different from each other **[2 marks]**

(b) Briefly Explain why the African Lions are known as “baby killers” **[3 marks]**

5. Discuss briefly the social organization of primates. **[5 marks]**

SECTION B (45 MARKS)

6. Apart from Order Perissodactyla and Order Artiodactyla discuss other mammalian orders (giving examples and distinguishing characteristics) **[15 marks]**

7. Describe the structure of a mammalian skull and discuss how skulls can be used to identify Kenyan mammals **[15 marks]**

8. Discuss the advantages and disadvantages of living in social groups in mammals **[15 marks]**

9. Discuss the ecological roles/values of mammals **[15 marks]**

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