



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2022/2023 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**

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

**BACHELOR OF WILDLIFE MANAGEMENT**

**COURSE CODE: WRM 3118-1**

**COURSE TITLE: MAMMALOGY**

**DATE: 9<sup>TH</sup> DECEMBER 2022**

**TIME: 11:00 – 13:00**

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**INSTRUCTIONS TO CANDIDATES**

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

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

**SECTION A [20 marks]**

- 1) Define the following terms, giving a mammalian example in for each **[5 marks]**
- (I) Mobbing;
  - (II) Altruism;
  - (III) Lek;
  - (IV) Sympatric populations;
  - (V) Allopatric populations
- 2) Describe key differences between Prototerians, Metatherians and Eutherians **[5 marks]**
- 3) (a) Outline any two (2) ways in which a mammal territory is marked and established **[2 marks]**  
(b) Describe any three (3) tenets that define a social unit among mammals **[3 marks]**
- 4) (a) Describe two morphological characteristics you would use to sex an African elephant (*Loxodonta africana*) **[2 marks]**  
(b) As the early “mammal-like” reptiles changed into mammals, outline key changes in the skull, jaw musculature, and teeth during these changes. **[3 marks]**

**SECTION B (45 MARKS)**

- 5) Discuss mechanisms of reproductive isolation that can lead to species **[10 marks]**
- 6) Describe the social organization of African Hunting Dog (*Lycaon pictus*) **[10 marks]**
- 7) Discuss the ecological and socio-economic importance of mammals **[10 marks]**
- 8) Discuss different signs that are used to study nocturnal or discrete mammals **[10 marks]**

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