



# **MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS  
2018/2019 ACADEMIC YEAR  
THIRD YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM & NRM  
BACHELOR OF WILDLIFE MANAGEMENT**

**COURSE CODE: WRM 3104  
COURSE TITLE: MAMMALOGY**

**DATE: 14<sup>TH</sup> DECEMBER, 2018**

**TIME: 1100 - 1300HRS**

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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 [25 marks]**

1) Describe the structure of the mammalian skull and how it can be used to identify mammals [5 marks]

2) Define the following terms, giving an example each from mammals [5 marks]

(I) Cursorial; (II) Endemism; (III) Fossorial; (IV) Crepuscular; (V) Arboreal

3) Describe key differences between Prototerians, Metatherians and Eutherians [5 marks]

4) (a) Explain how mammal territory is marked and established [2 marks]

(b) Describe any three (3) tenets that define a social unit among mammals [3 marks]

5) (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 [3 marks]

**SECTION B (45 MARKS)**

6) With appropriate examples, discuss strategies different prey species use to avoid predation [15 marks]

7) Describe the social organization of the African Hunting Dog (*Lycaon pictus*) [15 marks]

8) Why is it important to study mammals? Your answer should include at least two different reasons that relate to the scientific, ecological/conservation, or practical benefits of understanding mammalian biology [15 marks]

9) Discuss different signs that can be used to study nocturnal or discrete mammals [15 marks]

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