MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT

BACHELOR OF SCIENCE IN WILDLIFE MANAGEMENT

COURSE CODE: WRM 3105

COURSE TITLE: BEHAVIOURAL ECOLOGY

DATE: 11TH DECEMBER, 2018   **TIME: 1100 - 1300 HRS**

<u>**INSTRUCTIONS TO CANDIDATES**</u>

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 question (25 marks)

1. Differentiate between the following terms;
a) Sociobiology and behavioural ecology **(2marks)**
b) Proximate and ultimate behaviour causes **(2 marks)**
c) Innate and learned behaviour **(2 marks)**
2. a) Briefly explain what foraging behaviours is **(1 marks)**
   b) State factors that influence foraging behaviour in animals **(4 marks)**
3. Briefly discuss how predation has influenced the evolution of different
   prey characters **(5 marks)**
4. a) Briefly explain the importance of communication in animals **(4 marks)**
   b) Explain the environmental problems animals encounter while using
      acoustic communication **(3 marks)**
5. Describe the factors that favour philopatry behaviour in organisms
   (2 marks

Section B: Answer three (3) questions only (45 marks)
6. **a)** Describe ways in which female mammals optimize their mating success
   (8 marks)

   b) Briefly describe the factors that may have influenced the evolution

   of promiscuity or lekking behaviour in mammals and birds **(7 marks)**

7. Discuss the importance of understanding wildlife behaviour for wildlife

   Managers **(15 marks)**

8. Citing examples, from vertebrate species, discuss philopatry behaviour in
   Animals **(15 marks)**

9. Discuss in details how you can apply behavioural knowledge to manage

   overabundant invasive species (**15 marks)**