

**MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**

**SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT**

**BACHELOR OF SCIENCE IN WILDLIFE MANAGEMENT**

**COURSE CODE: WLM 361**

**COURSE TITLE: BEHAVIOURAL ECOLOGY**

**DATE: 31ST JANUARY, 2017 TIME: 11:00AM-1:00PM**

**INSTRUCTIONS 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 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)**

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