



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 3108

COURSE TITLE: POPULATION ECOLOGY

DATE: 13TH DECEMBER 2018

TIME: 8.30 -10.30AM

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 any three question (25 marks)

1. a) Distinguish semelparity from iteroparity (2 marks)
b) Explain the different patterns of survival occurring in different organisms (3 marks)
2. Describe how competition affects population growth (5 marks)
3. Explain the impacts of predation to population growth of prey species (5 marks)
4. a) Explain the impacts of niche overlap among species (3 marks)
b) Explain the negative impact of having few individuals in a closed vertebrate population (2 marks)
5. Briefly describe how sustainable harvest can be applied on a given vertebrate population (5 marks)

Section B: Answer three questions only (45 marks)

6. Discuss methods you would use to determine wildlife populations in a given protected area (15 marks)
7. Explain exhaustively the importance of population ecology in the management of an endangered species (15marks)
8. Discuss the three types of survival curves occurring in animal populations (15 marks)
9. Discuss factors that influences vertebrate population growth (15 marks)

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