



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2019/2020 ACADEMIC YEAR
FOURTH YEAR FIRST SEMESTER**

**SCHOOL OF NATURAL RESOURCES AND
ANIMAL SCIENCES**

**BACHELOR OF ENVIRONMENTAL STUDIES
(BIOLOGY AND HEALTH)**

**COURSE CODE: EBH 4135
COURSE TITLE: WILDLIFE ECOLOGY AND
MANAGEMENT IN EAST
AFRICA**

DATE: 9TH DECEMBER, 2019

TIME: 1100 - 1300 HRS

SECTION A (25 Marks)

1. Define the following terms, citing examples **(9 marks)**
 - i. Key stone species
 - ii. Bio-indicators
 - iii. Carrying capacity
 - iv. Parasite
 - v. Mutualism
 - vi. Inter-specific competition
 - vii. Intra-specific competition
 - viii. Population dynamics
 - ix. Conservation
2. Briefly discuss five (5) abiotic factors that affect the distribution of an animal population in an ecosystem. **(5 marks)**
3. With the aid of diagrams, describe three growth curves and relative species. **(6 marks)**
4. Briefly describe consumptive and non-consumptive uses of East Africa **(5 marks)**

SECTION B (45 Marks)

5. Exhaustively describe the diverse habitat types found in East Africa, their importance and highlight wildlife species found in them **(15 marks)**
6. In East Africa, wildlife habitats and species continue to face a lot of challenges. Using examples, showcase current and emerging concerns; and management interventions you would put in place to address these concerns. **(15 marks)**
7. Animals employ various foraging strategies to attain food. Citing examples, demonstrate the feeding strategies animals use to attain nutrition. **(15 marks)**
8. Protected areas play vital roles in promoting wildlife and environmental health. Thoroughly demonstrate your understating on this, citing examples in East Africa. **(15 marks)**