



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2019/2020 ACADEMIC YEAR

THIRD YEAR FIRST SEMESTER

**SCHOOL OF NATURAL RESOURCES AND
ANIMAL SCIENCES**

**BACHELOR OF IN ANIMAL HEALTH AND
PRODUCTION**

COURSE CODE: AHP 3103

**COURSE TITLE: PRINCIPLES OF WILDLIFE
MANAGEMENT**

DATE: 9TH DECEMBER, 2019

TIME: 1430 - 1630 HRS

SECTION A (25 MARKS)

1. Define the following terms **(10 marks)**
- | | |
|------------------------|--------------------|
| i. Wildlife Management | vi. Extant species |
| ii. Sustainable Use | vii. Ecosystem |
| iii. Carrying capacity | viii. Population |
| iv. Threatened species | ix. Community |
| v. Rare species | x. Buffer zone |
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 a diagram, describe of predator-prey relationships **(5 marks)**
4. What is the importance of buffer-zone and animal corridors? **(5 marks)**

SECTION B (45 Marks)

5. Land use practices have a positive or negative impact on wildlife populations. Highlight the land use practices in Kenya, their impact on wildlife management, and how you would address them **(15 marks)**
6. The East Africa savanna has the ability to host diverse species compositions and numbers. Exhaustively give reasons as to why this is possible. **(15 marks)**
7. Game ranching is currently being encouraged in Kenya as an alternative socio-economic activity. As an aspiring Animal Health graduate of Maasai Mara University, what interventions would you put into place to increase diversity and numbers of wildlife species in a ranch? **(15 marks)**
8. a) Invasive species such as water hyacinth, *Opuntia sp.* and *Prosopis juliflora* are known to alter wildlife forage and distribution in nature habitats. Citing examples, illustrate three major management interventions you would put into place to manage invasive species. **(9 marks)**
- b) Briefly outline ways you address over-crowding of wildlife in an ecosystem? **(6 marks)**