



MACHAKOS UNIVERSITY

University Examinations For 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

FIRST YEAR SECOND SEMESTER EXAMINATION FOR

MASTER OF ENVIRONMENTAL SCIENCE

ENS 812: WILDLIFE ECOLOGY AND RANGELAND RESOURCES MANAGEMENT

DATE: 21/6/2021

TIME: 8.30-11.30 AM

INSTRUCTIONS: Answer question ONE and any other THREE questions

QUESTION ONE (COMPULSORY) (15 MARKS)

- a) Explain how different requirements of animals affect habitat use and selection. (5 marks)
- b) Explain the ecological role of predation on wildlife population processes. (5 marks)
- c) Describe approaches that you might use for taking an inventory of rangeland resources. (5 marks)

QUESTION TWO (15 MARKS)

Rangelands are not wastelands. Discuss this statement.

QUESTION THREE (15 MARKS)

Discuss the factors that are important in regulating wildlife populations.

QUESTION FOUR (15 MARKS)

Using examples, describe the mechanisms that plants have evolved to cope with disturbances such as herbivory in rangelands.

QUESTION FIVE (15 MARKS)

Discuss the threats and challenges to conservation of wildlife habitats in Kenya.