



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL SCIENCE

SMR 305: WILDLIFE ECOLOGY AND MANAGEMENT

DATE: 18/8/2021

TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain how wild animals deal with the principle of competitive exclusion. (6 marks)
- b) Describe the factors affecting wildlife predation (8 marks)
- c) Discuss briefly the importance of ecological succession in wildlife management. (8 marks)
- d) Describe wildlife attributes that regulate population distribution group patterns. (8 marks)

QUESTION TWO (20 MARKS)

- a) Explain how grazing animals influence their habitats (10 marks)
- b) Describe the factors that increase grazing resistance in plants. (10 marks)

QUESTION THREE (20 MARKS)

Discuss the process of wildlife census and why it is important in wildlife management

QUESTION FOUR (20 MARKS)

Citing specific examples, discuss the approaches employed to manage human-wildlife conflicts in Kenya.

QUESTION FIVE (20 MARKS)

Suppose you are the Wildlife Manager in Lake Nakuru National Park where the buffalo population density has increased tremendously. Discuss measures that you can institute to control and sustainably manage the buffalo population.