



MACHAKOS UNIVERSITY

University Examinations For 2018/2019 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

BACHELOR OF ENVIRONMENTAL SCIENCE

ENS 230: ENVIRONMENTAL ECOLOGY

DATE: 10/5/2019

TIME: 8:30 – 10:30 AM

INSTRUCTIONS: Answer question ONE and any other TWO

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Briefly discuss Environmental Ecology as an interdisciplinary science (5 marks)
- b) Explain the effect of global warming on the tundra biome (10 marks)
- c) Describe the term 'Population Dynamics' as applied in environmental ecology (5 marks)
- d) Discuss the effects of human activities on the carbon cycle (10 marks)

QUESTION TWO (20 MARKS)

Discuss ecological importance of wetland ecosystems in Kenya

QUESTION THREE (20 MARKS)

- a) Discuss weathering as an important process affecting the physical structure of desert environments (10 marks)
- b) With the aid of diagrams, describe three types of population survivorship curves (10 marks)

QUESTION FOUR (20 MARKS)

Describe fire as an important factor structuring Chaparral environments

QUESTION FIVE (20 MARKS)

Using examples, discuss three types of ecological successions in communities