



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF ENVIRONMENT AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF ENVIRONMENTAL SCIENCES

SECOND YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF IN ENVIRONMENTAL STUDIES (RESOURCE CONSERVATION)

BACHELOR OF ENVIRONMENTAL SCIENCE

ENS 230: ENVIRONMENTAL ECOLOGY

DATE: 18/01/2021

TIME: 8.30-10.30 AM

INSTRUCTIONS:

Answer question ONE and any other TWO questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain how animals survive in the harsh Tundra environment. (10 marks)
- b) Explain the effects of human activities on the carbon cycle. (10 marks)
- c) Discuss different types of natural selections in populations. (10 marks)

QUESTION TWO (20 MARKS)

Using illustrations, discuss three types of ecological successions in communities.

QUESTION THREE (20 MARKS)

Conservation of deserts is an issue of critical importance in management of environment in Kenya. Justify this statement.

QUESTION FOUR (20 MARKS)

Discuss factors that threaten savanna ecosystems

QUESTION FIVE (20 MARKS)

As an environmental officer working for a county government in Kenya, explain to the county board of managers why funds should be set aside for wetland conservation.