



MACHAKOS UNIVERSITY

University Examinations for 2018/2019 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 303: APPLIED BIOGEOGRAPHY GEOGRAPHY

DATE:

TIME:

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS

QUESTION ONE (30 MARKS)

- a) Examine the biotic and abiotic factors which determine the geographical range of species (20 marks)
- b) Describe the movement of nitrogen in an ecosystem (5 marks)
- c) Illustrate the flow of energy in an ecosystem (5 marks)

QUESTION TWO (20 MARKS)

Discuss the growing impact of present –day climate change on ecosystem processes

QUESTION THREE (20 MARKS)

Explain the origin and development of the biogeography

QUESTION FOUR (20 MARKS)

Briefly describe the following concepts

- a) Mitigation of completion
- b) Predation
- c) Mutualism
- d) Commensalisms

QUESTION FIVE (20 MARKS)

Asses the effects of grazing, fire and temperature changes on the structure and functioning of tropical grasslands