



MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 301: PHYSICAL GEOGRAPHY III

DATE: 4/12/2019

TIME: 8.30-10.30 AM

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS

QUESTION ONE (COMPULSORY) (30 Marks)

- a) Define the terms:
- i. Geosystem (2 marks)
 - ii. Tundra (2 marks)
 - iii. Temperature Inversion (2 marks)
 - iv. Endemic Distributions (4 marks)
- b) Distinguish the terms “Climatic elements and Climatic factors/controls” (4 marks)
- c) Explain the Scope of Biogeography (5 marks)
- d) State Six (6) Factors that determine productivity of an ecosystem (6 marks)
- e) Outline Five (5) Main categories of theories of climate change (5 marks)

QUESTION TWO (20 MARKS)

Explain the stages of ecological succession in an ecosystem following catastrophic disturbance

QUESTION THREE (20 MARKS)

Using examples, explain how latitude, altitude, relief features and water masses affect the climate of East Africa

QUESTION FOUR (20 MARKS)

Discuss the human activities in your home County that are likely to lead to climate change and how they can be addressed

QUESTION FIVE (20 MARKS)

Discuss the concept of global warming, its causes and effects