



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 301: PHYSICAL GEOGRAPHY III

DATE: 31/7/2017

TIME: 8:30 – 10:30 AM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Define the following terms:
 - i) Evapo-transpiration (2 marks)
 - ii) Atmospheric stability (2 marks)
 - iii) Cloud seeding (2 marks)
 - iv) Global warming (2 marks)
 - v) Climate change (2 marks)
- b) Explain the four types of frontal systems. (10 marks)
- c) Discuss the theory of climax community. (6 marks)
- d) Outline four types of temperate forests. (4 marks)

QUESTION TWO (20 MARKS)

- a) Discuss the human activities in your home county that are likely to lead to climate change. (14 marks)
- b) Describe soil management measures that are used by farmers in your home county. (6 marks)

QUESTION THREE (20 MARKS)

Discuss the causes and effects of human -induced pressures on any agro-ecosystem in Kenya.

(20 marks)

QUESTION FOUR (20 marks)

- a) Explain the purpose and problems of classifying climates. (10 marks)
- b) Compare and contrast genetic and generic climate classification schemes. (10 marks)

QUESTION FIVE (20 MARKS)

Using appropriate examples, explain the stages of ecological succession in an ecosystem following a catastrophic disturbance such as forest fire.

(20 marks)