



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION (SPECIAL NEEDS)

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 301: PHYSICAL GEOGRAPHY III

DATE: 17/8/2021

TIME: 11:00 – 1:00 PM

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS.

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Explain the characteristics of three main climatic elements (6 marks)
- b) Distinguish the FOUR types of frontal systems (8 marks)
- c) Compare and contrast Flohn's and Koppen's climatic classification schemes (6 marks)
- d) Explain the three types of symbiosis on the basis of energy transfer (6 marks)
- e) Expound on the theory of ecological succession (4 marks)

QUESTION TWO (20 MARKS)

Using examples, explain the FOUR factors that control the climate of East Africa

QUESTION THREE (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 FOUR (20 MARKS)

Elucidate the human induced pressures and their causes using examples from Agro-ecosystems in Kenya

QUESTION FIVE (20 MARKS)

Describe the soil conservation and management measures used by farmers in your home County.