



MACHAKOS UNIVERSITY

UNIVERSITY EXAMINATIONS FOR 2021/2022 ACADEMIC YEAR

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

THIRD YEAR SUPPLEMENTARY/SPECIAL EXAMINATION FOR BACHELOR OF ARTS/ BACHELOR OF EDUCATION ARTS & BACHELOR OF EDUCATION SCIENCE

AGE 301: PHYSICAL GEOGRAPHY III

DATE: 9/3/2023

TIME: 8.30 – 10.30 AM

INSTRUCTIONS: Answer question ONE and any other TWO questions.

QUESTION ONE (30 MARKS)

- a) Define the following concepts:
- i. Global warming (2 marks)
 - ii. Climatic controls (2 marks)
 - iii. Geosystem (4 marks)
- b) Explain the role of the community in conserving the forest ecosystem. (10 marks)
- c) Distinguish between genetic and empirical approaches to climatic classification. (12 marks)

QUESTION TWO (20 MARKS)

Examine the ecological stages of succession in an ecosystem after a catastrophic disturbance. (20 marks)

QUESTION THREE (20 MARKS)

- a) Describe any two types of fronts. (10 marks)
- b) Explain the importance of air masses in controlling global climates. (10 marks)

QUESTION FOUR (20 MARKS)

Describe the global distribution of the following elements:

- a) Precipitation (10 marks)
- b) Temperature (10 marks)

QUESTION FIVE (20 MARKS)

Assess ways in which human activities in your local area influence its micro-climate. (20 marks)