



MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

THIRD YEAR SECOND SEMESTER SUPPLEMENTARY/SPECIAL EXAMINATION FOR BACHELOR OF ARTS/ BACHELOR OF EDUCATION ARTS

AGE 301: PHYSICAL GEOGRAPHY III

DATE: 9/3/2023

TIME: 8.30 – 10.30 AM

INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS.

SECTION A (COMPULSORY)

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:

- i. Precipitation (10 marks)
- ii. Temperature (10 marks)

QUESTION FIVE (20 MARKS)

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