



MACHAKOS UNIVERSITY

UNIVERSITY EXAMINATIONS FOR 2022/2023 ACADEMIC YEAR

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

**THIRD YEAR FIRSTSEMESTER EXAMINATION FOR BACHELOR OF ARTS/
BACHELOR OF EDUCATION ARTS & BACHELOR OF EDUCATION SCIENCE**

AGE 301: PHYSICAL GEOGRAPHY III

Date:

Time: *(To be fixed during exam proofreading)*

INSTRUCTIONS: Answer question ONE and any other TWO questions.

SECTION A (COMPULSORY)

QUESTION ONE(30 MARKS)

a) Distinguish between the following:

- i. Disjoint distributions and Endemic distributions (6 marks)
- ii. Climatic elements and climatic factors (4 marks)
- iii. Eurytopic and stenotopic organisms (4 marks)

b) Briefly describe the soil forming process. (6 marks)

c) Define frontal systems and describe FOUR types of fronts. (10 marks)

SECTION B (Answer any TWO Questions)

QUESTION TWO (20 MARKS)

a) Provide a comparison of genetic and generic climatic classification schemes. (12 marks)

b) Explain the stages of ecological succession in an ecosystem following a catastrophic disturbance. (8 marks)

QUESTION THREE(20 MARKS)

a) With regards to vegetation processes, explain adaptation and dispersal mechanisms. (5 Marks)

b) Describe the characteristics and distribution of vegetation in the World. (15 marks)

QUESTION FOUR (20 MARKS)

a) Explain the structure of an ecosystem. (8 marks)

b) Discuss any FOUR factors responsible for the distribution of biomes. (12 marks)

QUESTION FIVE (20 MARKS)

Using examples from your home county, examine the anthropogenic causes of climate change.
(20 marks)