



# MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

FIRST YEAR FIRST SEMESTER EXAMINATION FOR

DIPLOMA IN EDUCATION (ARTS)

AGE 0103: INTRODUCTION TO PHYSICAL GEOGRAPHY

DATE: 29/11/2019

TIME: 8.30-10.30 AM

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**INSTRUCTIONS: Answer QUESTION ONE and any other TWO QUESTIONS**

## QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Discuss the scope of Physical Geography (4 marks)
- b) Define the terms:
  - i. Ecosystem (2 marks)
  - ii. Geomorphology (2 marks)
- c) Distinguish the terms
  - i. Endogenic (androgenic) and exogenic (exogamic) processes (4 marks)
  - ii. Meteorology and Climatology (4 marks)
- d) Outline the benefits of studying the physical geography of your environment (4 marks)
- e) Explain the three most important processes of chemical weathering (3 marks)
- f) State three types of plate boundaries (3 marks)
- g) Outline any four (4) classes of evidence to prove that Gondwanaland and Laurasia actually existed and that they drifted to their present positions (4 marks)

## QUESTION TWO (20 MARKS)

- a) Briefly discuss the three main gradational processes (6 marks)
- b) Account for the vertical variations of temperature in the atmosphere (14 marks)

## QUESTION THREE (20 MARKS)

- a) State the methods used by scientists to collect data from the interior of the earth (5 marks)
- b) With an aid of illustrations, describe the internal structure of the earth (15 marks)

**QUESTION FOUR (20 MARKS)**

Describe the mode of formation of igneous, sedimentary and metamorphic rocks

**QUESTION FIVE (20 MARKS)**

- a) Discuss the scope of Biogeography (10 marks)
- b) Describe the energy flow in an ecosystem (10 marks)