



# **MACHAKOS UNIVERSITY**

**University Examinations for 2020/2021 Academic Year**

**SCHOOL OF HUMANITIES AND SOCIAL SCIENCES**

**DEPARTMENT OF SOCIAL SCIENCES**

**FIRST YEAR SECOND SEMESTER EXAMINATION FOR**

**BACHELOR OF EDUCATION (SPECIAL NEEDS)**

**BACHELOR OF EDUCATION (ARTS)**

**BACHELOR OF ARTS**

**AGE 102: PHYSICAL GEOGRAPHY I**

**DATE: 22/6/2021**

**TIME: 11:00 – 1:00 PM**

---

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

## **QUESTION ONE (COMPULSORY) (30 MARKS)**

- a) Explain the importance of Life Layer in the study of Physical Geography (4 marks)
- b) What are the TWO (2) main goals of Physical Geography (4 marks)
- c) Define the terms:
  - 1. Geological Time Scale (2 marks)
  - 2. Isotopes (2 marks)
  - 3. Amplitude (2 marks)
  - 4. Paleoclimatology (2 marks)
- d) Describe the term “Rock Metamorphism” (6 marks)
- e) State FOUR (4) different categories (properties) used to identify the various layers of the atmosphere (4 marks)
- f) Name the FOUR (4) regions of continental crust. (4 marks)

## **QUESTION TWO (20 MARKS)**

- a) Define the term “Endogenic Process” and write explanatory notes distinguishing the THREE (3) Endogenic processes. (10 marks)

- b) Describe the principle tenets of Big Bang Theory (10 marks)

**QUESTION THREE (20 MARKS)**

- a) Explain the FOUR (4) methods used to collect data from the interior of the earth and their limitations (8 marks)
- b) Using a diagrammatic sketch, explain the various parts of Oceanic Basin Floor (12 marks)

**QUESTION FOUR (20 MARKS)**

- a) Outline the Eight most important elements of weather and name the instruments used to measure them. (8 marks)
- b) Describe the forces causing Atmospheric Circulation (12 marks)

**QUESTION FIVE (20 MARKS)**

Using the case of ANY Kenya Meteorological Station Outline:

- a) Functions and services offered at the station. (10 marks)
- b) Usefulness of the data obtained from the station. (10 marks)