

LAIKIPIA



UNIVERSITY

# UNIVERSITY EXAMINATIONS

**SECOND SEMESTER 2023/2024 ACADEMIC YEAR**

**SECOND YEAR EXAMINATION FOR THE DEGREE OF  
BACHELOR OF EDUCATION (SCIENCE/ARTS)**

**GEOG 228: THE EARTH'S PHYSICAL ENVIRONMENT**

***STREAM: R***

***TIME: 2 HRS***

***DAY: TUESDAY [8.30 – 10.30 A.M]***

***DATE: 16/04/2024***

**THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES**

**PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.**



**INSTRUCTIONS TO CANDIDATES**

- i) Answer **QUESTION ONE** and **ANY OTHER TWO** Questions.
- ii) Maps, sketches, diagrams and examples should be used where they serve to illustrate the answers.

**QUESTION ONE (30 MARKS)**

- a) Differentiate between atmosphere and hydrosphere (4 Marks)
- b) Explain how continentality influences climate in Kenya (10 Marks)
- c) Describe any **FIVE** adaptation mechanisms of flora to a desert environment (10 Marks)
- d) Explain the role of aeolian processes in the formation of landforms in deserts (6 Marks)

**QUESTION TWO (20 MARKS)**

- a) Describe any **FIVE** types of soils in Kenya (10 Marks)
- b) Using relevant examples, discuss how chemical weathering influences soil formation in Kenya (10 Marks)

**QUESTION THREE (20 MARKS)**

- a) Using examples, explain **FIVE** concepts advanced by the Plate Tectonic Theory (10 Marks)
- b) Discuss any **FIVE** geomorphological evidences supporting the Continental Drift Theory (10 Marks)

**QUESTION FOUR (20 MARKS)**

- a) Discuss any **FIVE** causes of seismos (10 Marks)
- b) Explain any **FIVE** effects of earthquakes on the physical environment in seismic zones (10 Marks)

**QUESTION FIVE (20 MARKS)**

- a) Using a well-labelled diagram, describe the hydrological cycle (10 Marks)
- b) Discuss any **FIVE** physical drivers of water scarcity in some parts of Kenya (10 Marks)

