



KISII UNIVERSITY
UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF
BACHELOR OF EDUCATION (ARTS/SCIENCE) AND BACHELOR OF ARTS
SECOND SEMESTER 2023/2024
[JAN - APRIL, 2024]**

GEOG 201: THE EARTH'S PHYSICAL BIOLOGICAL GEOGRAPHY

STREAM: Y2 S2

TIME: 2 HOURS

DAY: FRIDAY, 3:00 - 5:00 P.M.

DATE: 12/04/2024

INSTRUCTIONS

- 1. Do not write anything on this question paper.***
- 2. Answer question ONE (Compulsory) and any other TWO questions.***

SECTION A: (COMPULSORY)

- (a) Discuss the concept of:
 - Fluvial geomorphology (10 marks)
 - Ecological niche (5 marks)
- b) Explain the concept of greenhouse effect (7 Marks)
- c) Examine the influence climate on landform development (8 marks]

SECTION B: ANSWER ANY TWO QUESTIONS

- (a) Explain how the graphic rain gauge is used to measure rainfall. (8 marks)
(b) Describe three main types of Ecological Succession (12 marks)
- Examine the following Elements of the hydrological cycle on the surface of the earth.
 - Precipitation (8 marks)
 - Infiltration (6 marks)
 - Evaporation (6 marks)
- (a) Describe geomorphic fluvial processes on the surface of the earth. (10 marks)

(b) Explain what is meant by the term Landform evolution. (10 marks)

5. (a) Examine the major Green House Gases affecting the Ozone layer. (8marks)

(b) Discuss how the following factors influence Solar Radiation at the top of the earth's atmosphere.

- i. Solar output (5 marks)
- ii. Distance between the sun and the earth (3 marks)
- iii. Angle of solar incidence and length of daytime. (4 marks)