



UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

**FOURTH YEAR EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN GEOGRAPHY**

GEOG 412: APPLIED GEOMORPHOLOGY

STREAM: BSC (GEOG)

TIME: 2 HRS

DAY: THURSDAY [2.30 – 4.30 P.M]

DATE: 29/01/2026

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS

- Answer question **ONE** (compulsory) and any other **TWO** questions
- Marks are indicated in parenthesis
- Do not write on the question paper

QUESTION ONE (30 MARKS)

- a) Examine the concepts of applied geomorphology (5 Marks)
- b) Identify **five** (5) elements of geomorphic systems (5 Marks)
- c) Giving relevant examples, outline **five** (5) human actions that modify geomorphic systems (10 Marks)
- d) Outline **five** (5) techniques of studying landforms and processes (10 Marks)

QUESTION TWO (20 MARKS)

- a) Explain the direct methods of landform analysis (10 Marks)
- b) Account for the simulation models that are applied in the analysis of a geomorphic system (10 Marks)

QUESTION THREE (20 MARKS)

Application of Slope Geomorphology aspects is important to contemporary society. Discuss this statement. (20 Marks)

QUESTION FOUR (20 MARKS)

- a) Demonstrate using known Kenyan example how an applied geomorphologist may assist a county government in the Management of Geohazards (10 Marks)
- b) Explain the effects of human activities on Coastal landforms. (10marks)

QUESTION FIVE (20 MARKS)

Applied Geomorphology is critical in Regional and Urban planning. Discuss (20 Marks)