

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF
EDUCATION (ARTS)**

GEOG 312: GEOMORPHOLOGY

STREAMS: B.ED (ARTS)

TIME: 2 HOURS

DAY/DATE: MONDAY 14/04/2025

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS

- Answer question ONE and any other TWO questions
- Use diagrams and sketch maps whenever they serve to illustrate an answer.

QUESTION ONE

- Using specific examples that illustrate their unique characteristics, distinguish between landscape and landform. (4 Marks)
- Differentiate between mechanical weathering and chemical weathering, providing examples of each process. (2 Marks)
- Explain how climate influence the types and intensity of weathering in different regions. Provide examples to illustrate climate-related weathering patterns. (6 Marks)
- Describe the significance of geomorphology in understanding Earth's dynamic processes. (6 Marks)
- Write brief notes on the following concepts with an aim to distinguishing them.
 - Estuaries and Deltas. (6 Marks)
 - Exogenic and Endogenic processes. (6 Marks)

QUESTION TWO

- Using a well-labelled diagram, explain the THREE fluvial processes. (12 Marks)

- b) Examine the relationship between stream velocity and the formation of meanders, highlighting how variations in velocity contribute to meander development. (8 Marks)

QUESTION THREE

- a) Describe the formation of the following desert erosional features;
- (i) Deflation hollow (3 Marks)
 - (ii) Pans (3 Marks)
 - (iii) Reg (2 Marks)
 - (iv) Yardangs (2 Marks)
- b) Explain the internal processes involved in volcanic activity, and discuss the landforms that are created by volcanic eruptions. (10 Marks)

QUESTION FOUR

- a) Provide examples of biological agents involved in weathering processes and describe how living organisms contribute to the breakdown of rocks. (10 Marks)
- b) Describe the different types of plate boundaries and provide examples of tectonic features associated with each. (10 Marks)

QUESTION FIVE

- a) Discuss constructive and destructive waves, highlighting their impacts shaping and building the coastal margins. (10 Marks)
- b) Explore the challenges associated with human activities in regions characterized by active faulting. (10 Marks)
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