

UNIVERSITY EXAMINATIONS

FIRST SEMESTER 2025/2026 ACADEMIC YEAR

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

GEOG 216: INTRODUCTION TO GEOLOGY

STREAM: BSc (GEOG)

TIME: 2 HRS

DAY: FRIDAY [8.30 – 10.30 A.M]

DATE: 30/01/2026

THIS QUESTION PAPER CONSISTS OF TWO (2) PAGES

PLEASE DO NOT OPEN UNTIL THE INVIGILATOR SAYS SO.

INSTRUCTIONS

- i. Answer all questions in Section A and **ANY TWO** questions in Section B
- ii. Marks are indicated in parenthesis
- iii. Do not write on the question paper

SECTION A (30 MARKS)**QUESTION ONE (20 MARKS)**

- a) Explain why geography students should be exposed to concepts of mineralogy (5 Marks)
- b) Outline the broad classes of sedimentary rocks (3 Marks)
- c) Account for the importance of Geologic Time Scale (GTS) (6 Marks)
- d) Highlight evidences which support the Continental Drift Theory (6 Marks)
- e) Account for the classification of igneous rocks based on the strength of the silica content (4 Marks)
- f) Demonstrate how organic materials are preserved within the Earth crust (6 Marks)

SECTION B (40 MARKS)**QUESTION TWO (20 MARKS)**

- a) Describe the geological relative dating techniques (10 Marks)
- b) Account for the basic components of the Earth's structure (10 Marks)

QUESTION THREE (20 MARKS)

- a) Demonstrate by giving specific example in each case, how igneous rocks are classified on the basis of texture. (10 Marks)
- b) Describe using specific examples the formation of chemical sedimentary rocks (10 Marks)

QUESTION FOUR (20 MARKS)

Explain how textural features determine the classes and specific metamorphic rocks (20 Marks)

QUESTION FIVE (20 MARKS)

Discuss in detail the rationale of studying geology in the contemporary society (20 Marks)