



UNIVERSITY EXAMINATIONS

1ST SEMESTER 2022/2023 ACADEMIC YEAR

**SECOND YEAR EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE (GEOGRAPHY)**

GEOG 216: INTRODUCTION TO GEOLOGY

STREAM: R

TIME: 2 HRS

DAY: TUESDAY [11.30AM – 13.30] DATE: 13/12/2022

THIS QUESTION PAPER CONSISTS OF THREE (3) 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 no write on the question paper

SECTION A (40 MARKS)**QUESTION ONE**

- (a) Outline the necessity of studying geology in modern Kenyan society. (6 Marks)
- (b) Justify the existence of continental drift. (3 Marks)

QUESTION TWO

- (a) Outline six (6) physical properties of minerals. (6 Marks)
- (b) Using appropriate examples, differentiate plutonic and volcanic rocks. (6 Marks)

QUESTION THREE

- (a) State the usefulness of fossils to geological studies. (5 Marks)
- (b) Enumerate the significance of geological time scale (GTS) to humanity. (5 Marks)

QUESTION FOUR

Briefly account for the different types of tectonic plate margins (9 Marks)

SECTION B (30 MARKS)**QUESTION FIVE**

- (a) Explain the process of lithification of sedimentary rocks (6 Marks)
- (b) Describe the types of metamorphism and give one rock example in each case (9 Marks)

QUESTION SIX

Explain the nature of the earth's structure (15 Marks)

QUESTION SEVEN

Using examples analyze the classification of igneous rocks

(15 Marks)

