



ELIZADE UNIVERSITY
FACULTY OF BASIC AND APPLIED SCIENCES

DEPARTMENT: PHYSICAL AND CHEMICAL SCIENCES

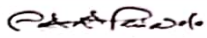
PROGRAMME: APPLIED GEOPHYSICS EXAM TITLE: DEGREE EXAMINATION

COURSE CODE & TITLE: AGY 201 – PHYSICAL GEOLOGY

TIME ALLOWED: 2 hrs

SEMESTER/SESSION: FIRST / 2020/2021

INSTRUCTIONS: Write your matriculation number on the cover page
of the exam booklet.


HOD's SIGNATURE

ANSWER QUESTION ONE (1) AND THREE (3) OTHER QUESTIONS IN ALL.

1. Discuss magma production at subduction zone and list the three factors that contribute to melting of the asthenosphere.
2. Describe the mineralogy, texture, and common geologic occurrence of the following types of igneous rocks:
(a) Granite (b) Rhyolite (c) Basalt (d) Gabbro (e) Andesite
3. (a) Draw a cross-sectional view of the earth.
(b) Describe the physical properties of each of the earth's layers.
4. (a) Explain the differences between mechanical weathering and chemical weathering.
(b) Explain how thermal expansion can establish forces that could fracture a rock.
5. (a) Enumerate the earth resources that are of economic value.
(b) Describe the differences between non-renewable and renewable resources.
6. (a) What is a geologic structure? What are the three main types of structures?
(b) Draw a cross-sectional sketch of an anticline–syncline pair and label the parts of the folds.