



ELIZADE UNIVERSITY
FACULTY OF BASIC AND APPLIED SCIENCES

DEPARTMENT: PHYSICAL AND CHEMICAL SCIENCES

PROGRAMME: APPLIED GEOPHYSICS EXAM TITLE: DEGREE EXAMINATION

COURSE CODE & TITLE: AGY 309 - GENERAL PETROLOGY

TIME ALLOWED: 2 hrs 30 mins

SEMESTER/SESSION: FIRST / 2020/2021

INSTRUCTIONS: Write your matriculation number on the cover page of the exam booklet.
Answer four (4) QUESTIONS in all (Question No. 1 is compulsory)

HOD's SIGNATURE

- 1a. What is metamorphism and what kind of changes occur to a rock during metamorphism?
- b. What is devolatilization and how and when does it occur in minerals?
- c. What is contact metamorphism and how can it be distinguished from regional metamorphism?
- d. List 10 examples of minerals only formed by metamorphic processes.

- 2a. Using illustrative diagram, explain the difference between a sill and a dyke.
- b. What do the terms felsic, mafic, intrusive and extrusive rocks mean?
- c. Explain the rock cycle.

- 3a. What is a mineral?
- b. What properties distinguish minerals from other substances.
- c. List six physical properties of mineral useful for identification.

- 4a Differentiate between weathering and erosion.
- b. Differentiate between Physical and chemical weathering
- c. Write short note on any five sedimentary rocks you know

- 5a. What is magma?
- b. What are the characteristics of igneous rocks
- c. Explain five types of Igneous rock textures you know