

REPUBLIC OF CAMEROON
PEACE-WORK-FATHERLAND

MINISTRY OF SECONDARY EDUCATION

REGIONAL DELEGATION OF LITTORAL

REPUBLIQUE DU CAMEROON
PAIX-TRAVAIL-PATRIE

MINISTERE DES ENSEIGNEMENTS SECONDAIRES

DELEGATION REGIONALE DU LITTORAL

LITTOGETA 2024

	GENERRAL CERTIFICATE OF EDUCATION MOCK EXAMINATION	SUBJECT CODE NUMBER 0755	PAPER NUMBER 2
	SUBJECT TITLE GEOLOGY		
	ADVANCED LEVEL	SESSION: MARCH 2024	

Time Allowed: THREE HOURS

INSTRUCTRIONS TO CANDIDATES

Mobile phones are NOT ALLOWED in the examination room.

Answer any FOUR questions.

All questions carry equal marks.

You are reminded of the value of clear sketches, even when not specifically demanded by the wording of the question, and of the necessity for good English and orderly presentation of your answers.

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QUESTION 1

- a) i. Differentiate between the following pairs of terms as used in crystallography.
- Crystal edge and solid angle. (2 marks)
 - Crystal form and Crystal habit. (2 marks)
 - Crystal face and crystal zone. (2 marks)
- ii. Write short notes on crystal symmetry elements. (6 marks)
- b) With named examples, classify igneous rocks based on:
- i. Environment of formation. (3 marks)
 - ii. Grain size. (4 marks)
- c) Describe the following physical properties as used in the identification of minerals:
- i. Specific gravity (2 marks)
 - ii. Diaphaneity. (2 marks)
 - iii. Colour. (2 marks)

TOTAL = 25 MARKS

QUESTION 2

- a) i) What is global warming? (2 marks)
- ii) Explain three measures that the government can take to combat global warming (3 marks)
- b) i) Describe three coastal depositional features. (6 marks)
- ii) What geological features are observed at the youthful, mature and the old age stage of river Wouri? (6 marks)
- iii) Outline the processes and products from the chemical weathering of:
- Basalt. (2marks)
 - Granite. (2marks)
- c) Distinguish between rhythmic and cyclic sedimentation. (4 marks)

TOTAL = 25 MARKS

QUESTION 3

- a) Describe the following sedimentary structures:
- i. Ripple marks. (3 marks)
 - ii. Mud cracks. (3marks)
 - iii. Neptunian. (3 marks)
- b) Assess the properties of body waves. (6 marks)
- c) i) Briefly explain three factors that influence the viscosity of magma. (6 marks)
- ii) Account for the various discontinuities of the Earth's interior. (4 marks)

TOTAL = 25 MARKS

QUESTION 4

- a) i. Distinguish between joints and faults. (3 marks)
- ii. State the importance of joints to the geologist. (5 marks)
- iii. State three ways by which folds can be recognized on geologic maps. (3 marks)

- b) Discuss the suitability of the following rock types as used in roofing and road construction:
- i. Basalt. (3 marks)
 - ii. Granite. (3 marks)
 - iii. Slate. (3 marks)
- c) Write short notes on meteorites and comets. (4 marks)

TOTAL = 25 MARKS

QUESTION 5

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- a) Define the following terms as used in economic geology:
- i. An ore. (2 marks)
 - ii. Gangue mineral. (2 marks)
 - iii. Supergene enrichment deposit. (2 marks)
- b) Briefly describe the effects of contact metamorphism on carbonate rocks. (7 marks)
- c) Examine three features associated with convergent plate boundaries. (9 marks)

TOTAL = 25 MARKS

QUESTION 6

- a) Distinguish between the following terms as applied in hydrogeology:
- i. Porosity and permeability. (2 marks)
 - ii. Ordinary wells and artesian wells. (2 marks)
 - iii. Springs and geysers. (2 marks)
- b) i) Write short notes on the Cameroon Volcanic Line (CVL). (5 marks)
- ii) State five economic mineral deposits in Cameroon and their locations. (5 marks)
- c) Discuss the shell morphological characteristics of trilobites. (9 marks)

TOTAL = 25 MARKS

END

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