

REGISTRATION CENTRE NUMBER		CENTRE NAME	
CANDIDATE'S FULL NAMES			
CANDIDATE'S IDENTIFICATION NUMBER	SUBJECT CODE 0555	PAPER NUMBER 2	
FOR OFFICIAL USE ONLY (Candidate Random Code) →			
GENERAL CERTIFICATE OF EDUCATION BOARD ORDINARY LEVEL EXAMINATION			
SUBJECT TITLE GEOLOGY	SUBJECT CODE 0555	PAPER NUMBER 2	
EXAMINATION DATE: JUNE 2025			

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Duration: Two and a Half Hours

Enter the information required in the boxes above.

Answer **FIVE** questions: Choosing **Two** questions from section A, **Two** from Section B and question 7 in Section C. (Note: Question 7 is compulsory)

Calculators are Allowed

You are reminded of the necessity for good English and orderly presentation in your answers.

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Marked by: -----	<u>SCORE</u>
Signature:----- Date -----	
Checked by: -----	
Signature:----- Date -----	

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Turn Over

SECTION A

1. (a) (i) State the relationship between Geology and the following subjects:
Biology.

(1 mark)

Chemistry.

(1 mark)

- (ii) What do you understand by the term Solar System?

(2 marks)

- (b) Distinguish between the following terms;

- (i) Earthquake magnitude and Earthquake intensity.

(2 marks)

- (ii) Earthquake focus and Earthquake epicentre

(2 marks)

- (c) Define the term continental drift.

(2 mark)

(Total =10 marks)

2. (a) Distinguish between physical and chemical weathering.

(3 marks)

- (b) List the factors that affect the rate of weathering.

(2 marks)

The flow diagram below, (figure 1) shows a rock cycle.

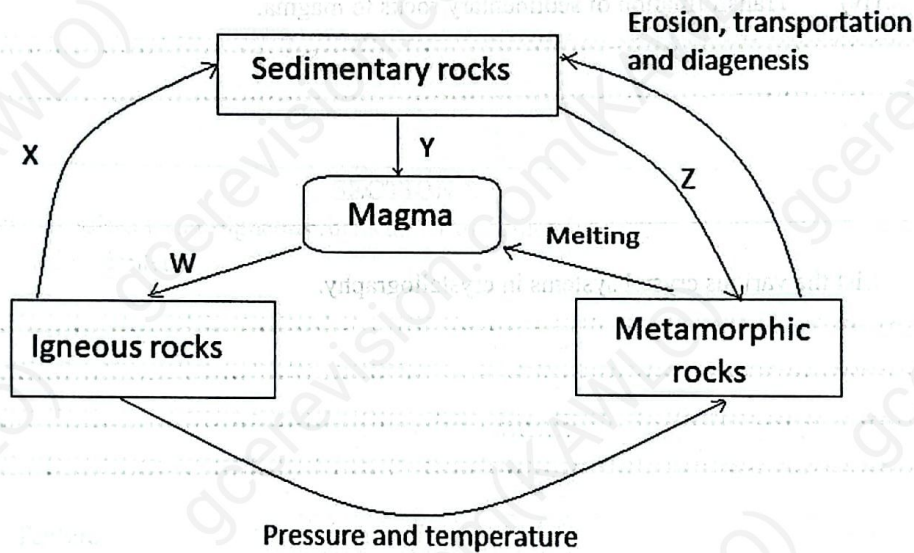


Figure 1

- (c) Identify the processes indicated by W, X, Y and Z.

W.....(1 mark)
 X.....(2 marks)
 Y.....(1 mark)
 Z.....(1 mark)

OR

(c) Which processes are responsible for the formation of the following?

(i) Transformation of magma to igneous rocks.

(1 mark)

(ii) Transformation of igneous rocks to sedimentary rocks.

(2 marks)

(iii) Transformation of sedimentary rocks to metamorphic rocks.

(1 mark)

(iv) Transformation of sedimentary rocks to magma.

(1 mark)

(Total=10 marks)

3. (a) List the various crystal systems in crystallography.

(3 marks)

(b) What do you understand by the following terms as used in mineralogy?

(i) Cleavage.

(1 mark)

(ii) Streak.

(1 mark)

- (c) (i) List common sedimentary structures.

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.....

.....

(2 marks)

- (ii) Give an example of a sedimentary rock.

.....

.....

(1 mark)

- (d) (i) Define the term dating in Geology.

.....

.....

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(1 mark)

- (ii) List TWO methods used in dating rocks.

.....

.....

(1 mark)

(Total = 10 marks)

SECTION B

4. (a) (i) Outline the classification of igneous rocks under the following:
Silica content.

.....

.....

.....

.....

(2 marks)

Texture.

.....

.....

.....

(2 marks)

- (ii) State any TWO rock types common along the Cameroon Volcanic Line (CVL).

.....

.....

(2 marks)

- (b) State the factors that influence the process of metamorphism.

.....

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.....

.....

(2 marks)

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- (c) List the **THREE** main layers of the Earth.

.....

.....

.....

.....

(2 marks)

(Total = 10 marks)

5. (a) Define the following as used in structural Geology:

- (i) Fold.

.....

.....

.....

(1 mark)

- (ii) Fault.

.....

.....

.....

(1 mark)

- (iii) Joint.

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.....

.....

(1 mark)

- (b) What do you understand by the following terms?

- (i) Marine transgression.

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.....

.....

.....

(1 mark)

- (ii) Marine regression.

.....

.....

.....

(1 mark)

- (c) Outline the conditions that favour the preservation of fossils.

.....

.....

.....

.....

(3 marks)

- (d) Give the uses of fossils.

(2 marks)

(Total = 10 marks)

6. (a) Describe the following geologic hazards;
(i) Landslides.

(2 marks)

- (ii) Volcanic eruption.

(2 marks)

- (b) (i) What do you understand by the term mineral deposit?

(1 mark)

- (ii) Name the different mining methods.

(2 marks)

- (c) Outline the methods used to prevent mass movement.

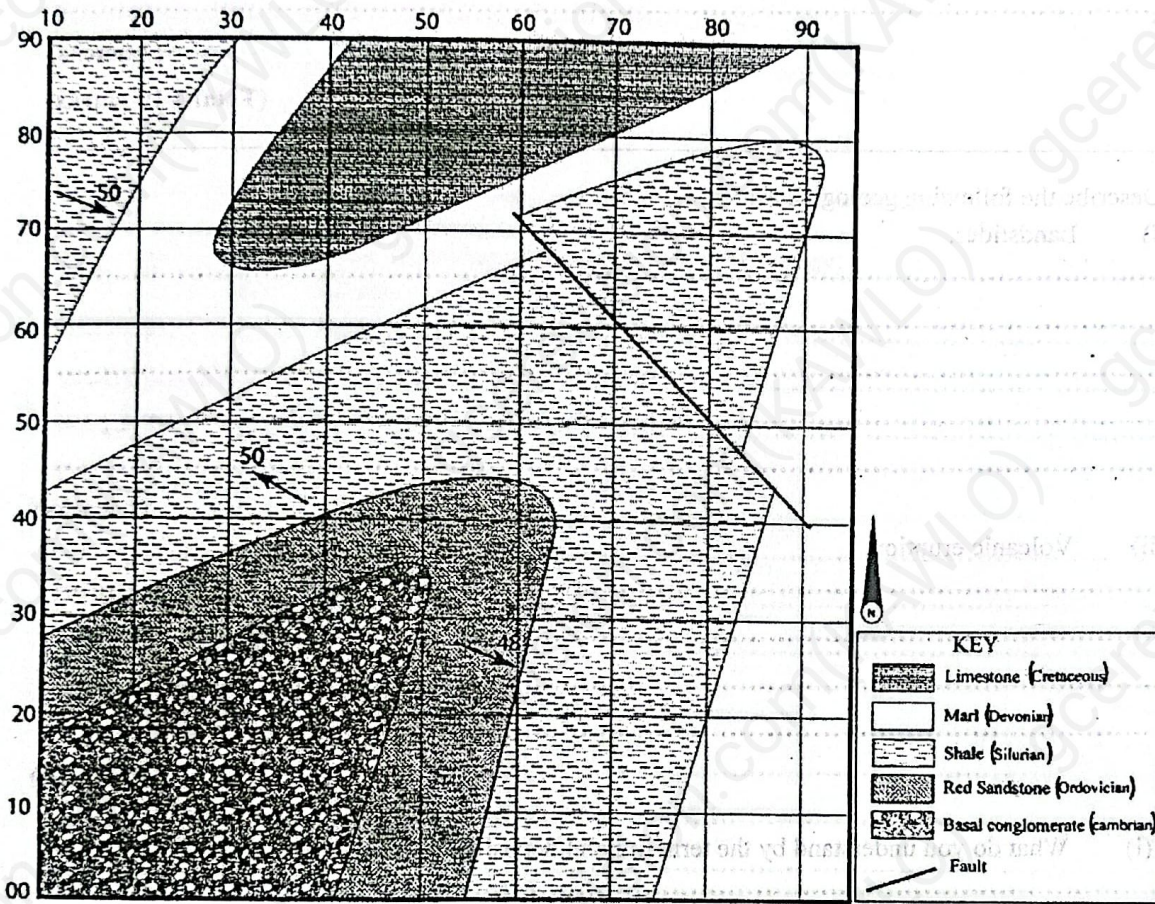
(3 marks)

(Total = 10 marks)

Turn Over

SECTION C

7. (a) Study the Geologic map (figure 2) provided and answer questions 7(a)(i), (ii) and (iii).



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Figure 2

7. (a) (i) Name the type of fold found on the Southern part of the map and give reasons.

Name of fold.

(2 marks)

Reasons:

(1 mark)

- (ii) Give the trend of the fault on the map.

(1 mark)

- (iii) Identify the youngest rock on the map

(1 mark)

OR

- (a) (i) How can folds be identified on a Geological map?

.....

.....

.....

(2 marks)

- (ii) Describe how faults and outliers can be identified on a geologic map.

Faults:

.....

.....

(1 mark)

Outliers:

.....

.....

(2 marks)

- 7 (b) Study the crystal model below (figure 3) and answer questions 7 b (i), (ii) and (iii).

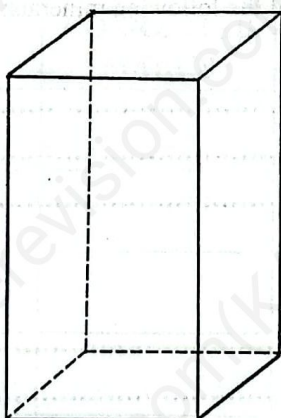


Figure 3

- (b) (i) To which crystal system does the model belong?

.....

(1 mark)

- (ii) Label a solid angle on the crystal model in figure 3

(2 marks)

- (iii) How many crystal faces are found on the model?

.....

(2 marks)

OR

(b) Define the following terms as used in crystallography;

(i) Crystal face:

.....

.....

.....

(1 mark)

(ii) Crystal edge:

.....

.....

.....

(2 marks)

(iii) Solid angle:

.....

.....

.....

(2 marks)

(c) Give the physical properties of the following minerals:

(i) Magnetite.

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(2 marks)

(ii) Calcite.

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(2 marks)

(iii) Outline the uses of Quartz.

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(1 mark)

(d) Describe basalt based on mode of formation, texture and colour.

(i) Basalt.

Mode of formation:

.....

.....

.....

(1 mark)

Texture:

.....

.....

.....

(1 mark)

Colour:

.....

.....

(1 mark)

(ii) Give the uses of basalt:

.....

.....

.....

.....

(2 marks)

(Total = 20 marks)

QUESTION NUMBER	MARKS	CORRECTED MARKS
1.		
2.		
3.		
4.		
5.		
6.		
7.		
TOTAL		