

REGISTRATION CENTRE NUMBER		CENTRE NAME	
CANDIDATE'S FULL NAMES			
CANDIDATE 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 2022			

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)

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

FOR EXAMINERS' USE ONLY	
Marked by: _____ Signature: _____ Date _____	SCORE
Checked by: _____ Signature: _____ Date _____	





SECTION A

1) (a) List FOUR branches of Geology.
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.....
.....
.....(4 marks)

b) Define the following terms as used in Astrogeology:

i) Galaxy
.....
.....
..... (2 marks)

ii) Meteorite
.....
.....
..... (2 marks)

c) State TWO sources of energy.
.....
..... (2 marks)

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(Total= 10 marks)

2) a) i) Differentiate between crystal edge and solid angle.
.....
.....
.....
.....(2 marks)

ii) List THREE bond types found in minerals.
.....
.....
.....(3 marks)

b) i) Differentiate between earthquake magnitude and earthquake intensity.

.....
.....
.....
.....
.....
..... (3 marks)

ii) List TWO types of earthquake waves.

.....
.....
..... (2 marks)

(Total=10 marks)

3) (a) Classify folds based on the attitude of the axial plane.

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.....
.....
.....
.....
.....
.....
..... (6 marks)

b) List FOUR structures found in sedimentary rocks.

.....
.....
..... (4 marks)

(Total =10 marks)



Turn Over

SECTION B

4) a) i) Define Global warming.

.....
.....
..... (2 marks)

ii) List FOUR negative effects of mining activities on the environment.

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.....
.....
..... (4 marks)

b) i) Give TWO reasons why some rocks do not have fossils.

.....
.....
..... (2 marks)

ii) List TWO importance of fossils.

.....
.....
..... (2 marks)

(Total = 10 marks)

5) a) Define the following terms as used in stratigraphy:

i) Unconformity.

.....
.....
..... Meet us at www.alstug.com (2 marks)

ii) Absolute dating.

.....
.....
..... (2 marks)



b) Explain how temperature changes affects rocks in physical weathering.

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(4 marks)

c) List TWO mountains found along the Cameroon Volcanic Line.

.....

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(2 marks)

(Total=10 marks)

6) a)i) Define metamorphic grade.

.....

.....

.....

(2 marks)

ii) List THREE metamorphic rocks that will be formed when an igneous intrusion comes in contact with shale.

.....

.....

.....

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(3 marks)

iii) Give an example of a high grade metamorphic rock.

.....

.....

(1 mark)

b) Explain the following concepts as used in Plate Tectonics:

i) Sea floor spreading.

.....

.....

.....

(2 marks)



ii) Continental drift.

.....

 (2 marks)

(Total= 10 marks)

SECTION C

Study the Geological map below (figure 1) and answer questions 7a (i), (ii) and (iii).

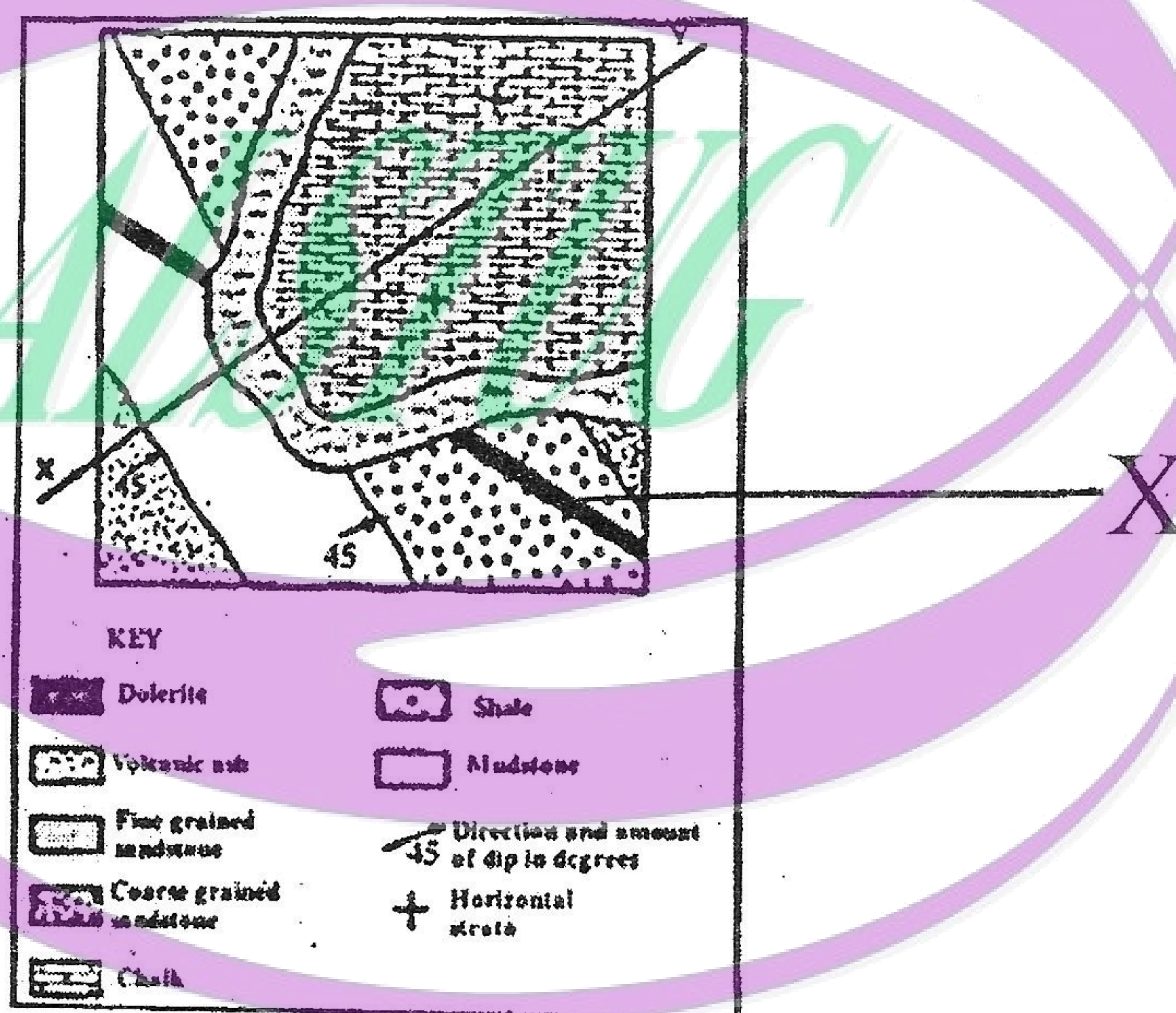


Figure 1.

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7) a) (i) Identify the type of fold found on the map.

.....(2 marks)

(ii) Give the reason for your answer in a (i) above.

.....
(2 marks)

(iii) What is the name of the structure labeled X ?

.....(1 mark)

Study the crystal model below (figure 2) and answer questions 7b (i), (ii) and (iii).

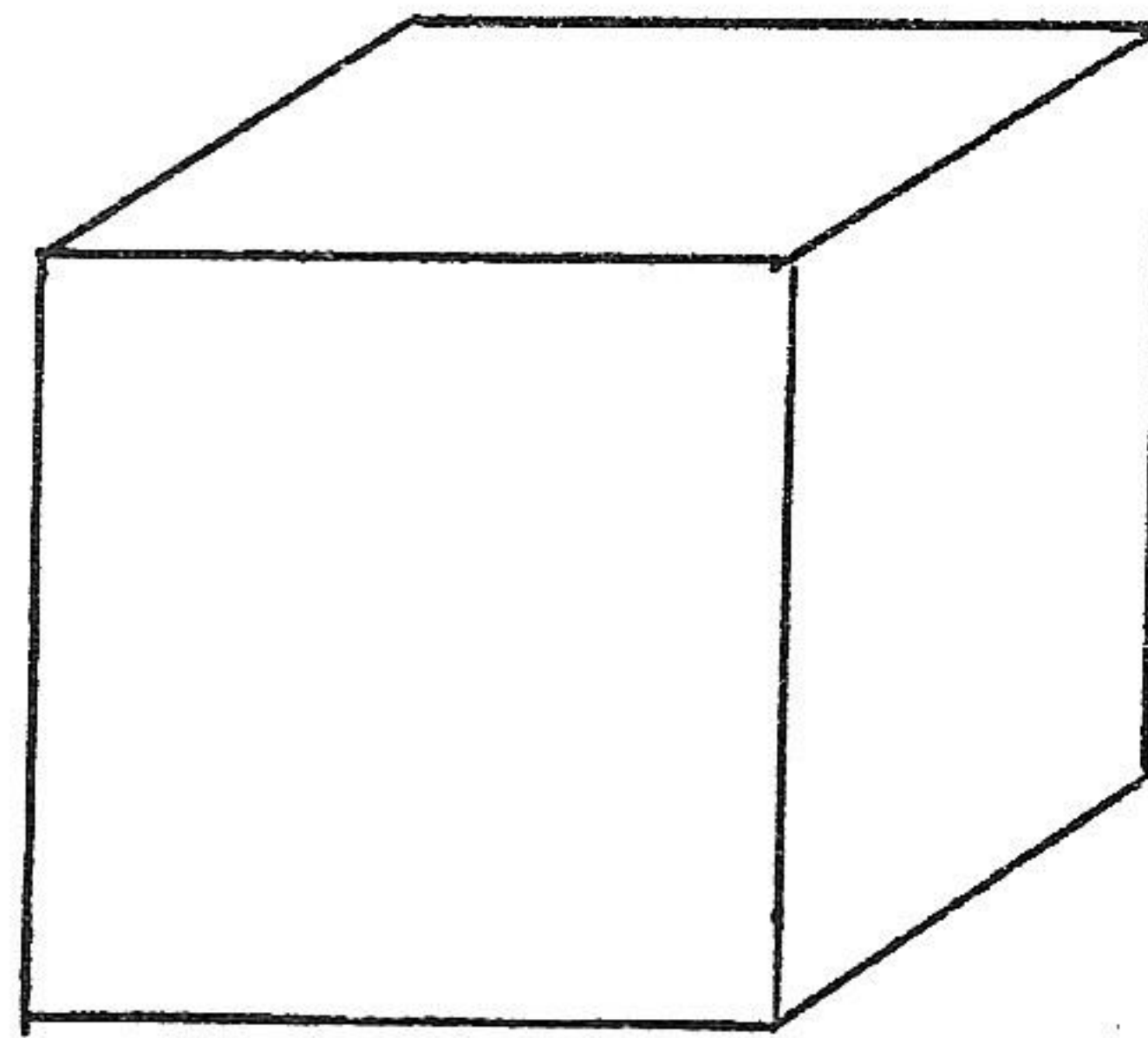


Figure 2.

7) b) (i) Name the type of form exhibited by the crystal.

.....(1 mark)

(ii) How many planes of symmetry does the crystal have?

.....(2 marks)

(iii) Name TWO minerals that crystallise in this form.

.....(2 marks)

7) c) (i) State the hardness and the fracture of the mineral Quartz?

Hardness:(1 mark)

Fracture:(1 mark)

(ii) State the colour and the lustre of the mineral Olivine?

Colour:(1.5 marks)

Lustre:(1.5 marks)

7) d) Give the texture and the environment of formation of the following rock types:

(i) Granite.

Texture:(1 mark)

Environment:(1 mark)

(ii) Basalt.

Texture:(1 mark)

Environment:(1 mark)

(iii) Give TWO uses of basalts.

.....(1 mark)

(Total=20 marks)