# **GENERAL CERTIFICATE OF EDUCATION (GCE) BOARD**

## General Certificate of Education Examination

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Geology 2 0755

JUNE 2021

ADVANCED LEVEL

Subject Title	Geology			
Paper No.	Paper 2			
Subject Code No.	0755			
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**THREE HOURS** 

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 in your answers.



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_		2	
1.	(a)	<ul><li>(i) Planets;</li></ul>	(35)
		(ii) Galaxy; adding 4 wollaboold to aboth the Marguet	
	-	(iii) Nebular;	[ (1]+1(+1))
		(iv) Maria;	37.11
		(v) Meteors.	(10 marks)
	(b)	On the world map provided, mark and label the distribution of the major belts	of
	1117	earthquakes.	(5 marks)
	(c)	Describe FIVE syndepositional sedimentary structures.	(10 marks)
			(Total = 25 marks)
2.	(a)	Briefly discuss the evidences of Continental Drift.	(10 marks)
	(b)	List THREE factors that influence the violence of a volcanic eruption.	(3 marks)
	(c)	Discuss the acid igneous rocks, under the following headings:	the second second
		(i) Composition;	
		(ii) Texture;	
		(iii) Mode of occurrence.	(12 marks)
			(Total = 25 marks)
3.	(a)	Compare and contrast the crystallography of the Hexagonal system and the Tr	igonal system.
			(10 marks)
	(b)	Describe the following physical properties as used in the identification of mine	rals:
		(i) Colour;	(4 marks)
		(ii) Streak;	(2 marks)
		(iii) Hardness.	(4 marks)
	(c)	With named examples of rocks, outline foliated textures in metamorphic rocks.	(5 marks)
			(Total = 25 marks)
4.	(a)	Describe the layered structure of the Earth paying particular attention to:	
		(i) Variation in composition;	
		(ii) Physical states.	(10 marks)
		$(11) \longrightarrow 1$ hysical states.	
	(b)	Discuss the genetic classification of folds.	(10 marks)
2	(b)	Discuss the genetic classification of folds.	
	(b) (c)		

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5. (a)		Discuss the preservation potentials of the following rocks:				
		(i) Igneous rocks; (3 marks	s)			
		(ii) Metamorphic rocks; (3 marks	·			
		(iii) Fine-grained clastic sedimentary rocks; (3 marks	,			
		(iv) Coarse-grained clastic sedimentary rocks. (3 marks	·			
	(b)	Discuss TWO methods of mining. (6 marks	s)			
	(c)	Explain the factors that will determine the quantity of ground water. (7 mark	i)			

### (Total = 25 marks)

(a) What are the various methods by which geologists determine the chronological order of events and features without reference to their absolute ages? (12 marks)

- (b) What factors affect the rate of erosion along coastlines?
- (c) Distinguish between the following terms as applied in Economic Geology:
  - (i) A mineral resource and a mineral reserve;
  - (ii) A mineral deposit and an ore deposit;
  - (iii) Gangue mineral and gem mineral.

(9 marks) (Total = 25 marks)

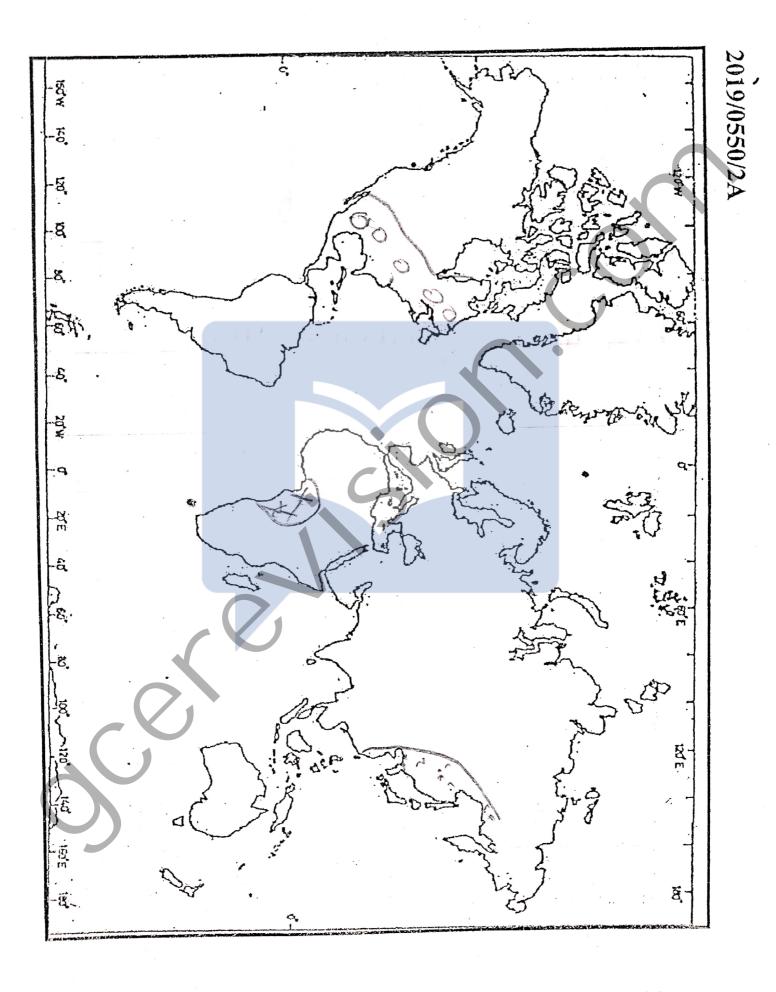
(4 marks)

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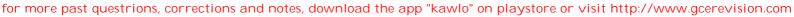
6.

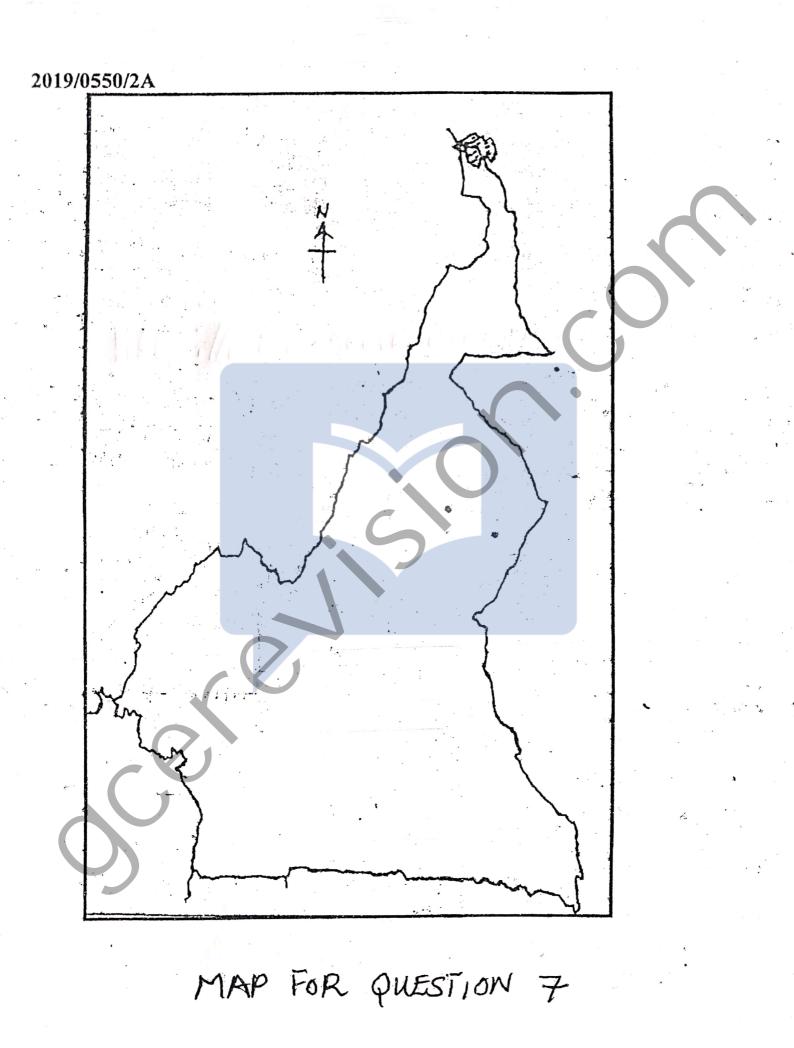
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