GENERAL CERTIFICATE OF EDUCATION (GCE) BOARD

General Certificate of Education Examination

Geology 2

0755



JUNE 2021

ADVANCED LEVEL

Subject Title	Geology		
Paper No.	Paper 2	-	
Subject Code No.	0755		



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.

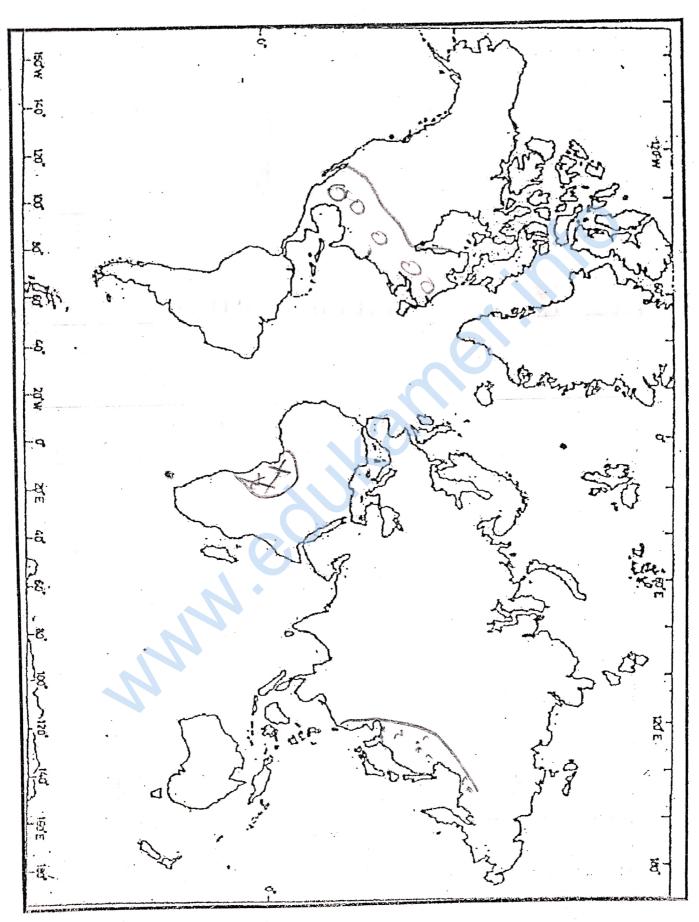
Turn Over



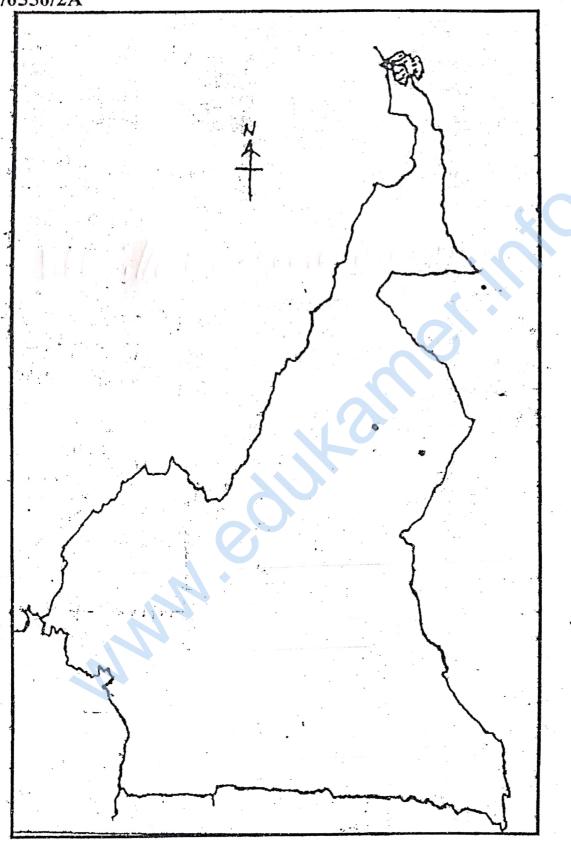
1.	(a)	Defin	e the following terms as used in Astrogeology:	ra~ ·			
		(i)	(i) Planets;				
		(ii)	Galaxy; minus 4 unitanon 4 to shorting light and the same				
		(iii)	Nebular;	r agetair)			
		(iv)	Maria;	3771			
		(v)	Meteors.	(10 marks			
	(b)	. ,	e world map provided, mark and label the distribution of the major belts of	a about the same			
	1117	eartho	(5 marks				
	(c)	Desci	(10 marks				
			Control of the City	(Total = 25 marks)			
			1 and (8)				
2.	(a)	Briefl	ly discuss the evidences of Continental Drift.	(10 marks			
	(b)	List T	t THREE factors that influence the violence of a volcanic eruption. (3 n				
	(c)	Discu	uss the acid igneous rocks, under the following headings:				
		(i)	Composition;				
		(ii)	Texture;				
		(iii)	Mode of occurrence.	(12 marks			
		(****)		(Total = 25 marks)			
3.	(a)	Comp	pare and contrast the crystallography of the Hexagonal system and the Trig	gonal system.			
				(10 marks			
	(b)	Descr	ribe the following physical properties as used in the identification of minera	als:			
		(i)	Colour;	(4 marks			
		(ii)	Streak;	(2 marks			
		(iii)	Hardness.	(4 marks)			
	(c)		named examples of rocks, outline foliated textures in metamorphic rocks.	(5 marks)			
				(Total = 25 marks)			
				(10tai 25 mar.w)			
4.	(a)	Descr	ibe the layered structure of the Earth paying particular attention to:				
		(i)	Variation in composition;				
		(ii)	Physical states.	(10 marks)			
	(b)		ass the genetic classification of folds.	(10 marks)			
				(10 11111111111111111111111111111111111			
	(c)	Analy	yse the environmental effects of the eruptions of Mount Cameroon.	(5 marks)			
	-	1		(Total = 25 marks)			
				(



5.	(a)	Discuss the preservation potentials of the following rocks:	
٥.	()	(i) Igneous rocks;	•
		-	(3 marks)
		(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)
	(c)	Explain the factors that will determine the quantity of ground water.	(7 mark)
6.	(a)	What are the various methods by which geologists determine the chron	(Total = 25 marks)
0.		features without reference to their absolute ages?	
	(b)	What factors affect the rate of erosion along coastlines?	(12 marks)
		(4 marks)	
	(c)	Distinguish between the following terms as applied in Economic Geole	ogy:
		(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)







MAP FOR QUESTION 7

