MOMALICHE 3 CYCLE 6

Kenya Certificate of Secondary Education

312/1	- GEOGRAPHY -	Paper 1
	Sept. 2021-2¾hours	
Name	Admission Number	
Signature	Class and Stream	

Date

Instructions to candidates

- (a) Write your name and admission number in the spaces provided above.
- (b) Sign and write the date of the examination in the spaces provided above.
- (c) This paper consists of two sections; A and B.
- (d) Answer all questions in section A.
- (e) Answer question 6 and any other two questions from section B.
- (f) Answers **must** be written in the spaces provided at the end of question 10.
- (g) This paper consists of 13 printed pages.
- (h) Candidates should check the question paper to ascertain that all papers are printed as indicated and that no questions are missing.
- (i) Candidates should answer all questions in English.

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Section	Questions	Maximum	Candidates
		Score	Score
Α	1-5	25	
	6	25	
В		25	
		25	

Total Score

SECTION A

Answer **all** the questions in this section.

1.	(a) What is the shape of the earth?	(1
	mark)	
	(b)State two reasons why the earth has the spherical shape	(4marks)
2.	(a) Give the two dates in a year during which the number of hours of darkn	ess and
	daytime is equal in both the north and south poles.	
	(2marks)	
	(b) Why do the lengths of days and nights vary from part of the earth to an	other?
(3mar	rks)	
3.	(a) Name two scales used to measure the intensity of an earthquake.	
	(2marks)	
	(b) Give three natural causes of earthquakes	
(3mar	rks)	
4.	State five factors that influence mass wasting.	(5marks)
5.	(a) What is the difference between an ice sheet and an iceberg?	
	(2marks)(b) Name three types of glacial moraines.	
	(3marks)	

SECTION B

Answer question 6 and any other two questions from this section

- 6. Study the map of Kijabe 1:50,000 (Sheet 134/3) provided and answer the following questions
 - (a) (i) What is the approximate height of the top of Kijabe hill? (2marks)
 - (ii) Measure the length of Nairobi-Naivasha railway line from Landhies (257978) to the level crossing near Kijabe station (308984). Give your answer in kilometres. (2marks)
 - (iii) Which relief feature on the map may have created problems in the construction of the railwayline?

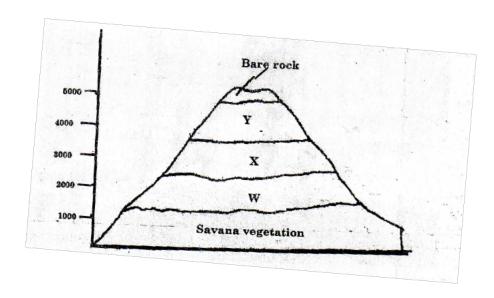
 (2marks)
 - (b) Describe the drainage of the area covered by the map.(6marks)
 - (c) Explain how relief has influenced the distribution of settlement in the area covered.

(6marks)

(d)Citing evidence from the map, state three economic activities carried out in the area covered by the map.

(6marl	(3)	
(e) Wh (1mark)	at is the latitudinal extend of the area covered by the map.	
, ,		
7. (a) Des	scribe the following characteristics of minerals.	
	i. Colour	(2marks)
	ii. Cleavage	(2marks)
	iii. Hardness	(2 marks)
(b)	(i) Give two types of igneous rocks.	
(2marks)		
(6 marl	(ii) Explain three conditions necessary for the growth of co	oral polyps.
(6marl	(S)	
(c) Sat	e four uses of rocks.	
(4marks)		
(d)You	are planning to carry out a field study on the rocks within y	vour school
environment.	and planning to carry car a more creaty circular recirc maining	, ou. comco.
	(i) Give two secondary sources of information you would u	ise to prepare for
	the field study	
	(2marks)	

(ii) State why you need the following items during the field study.			
• A1	fork jembe	(1mark)	
• Ba	ng	(1mark)	
	(iii) Suppose during the field study you collected marble, sandstone and granites, classify each of these samples according to its mode of formation		
•	Marble	(1mark)	
•	Sandstone (1mark)		
•	Granites	(1mark)	
	low represents zones of natural vegetation on mountain in question (a) i and (a) ii	Africa.	
	Sandstone (1mark) Granites low represents zones of natural vegetation on mountain in	(1mark	



- (a) (i) Name the vegetation zones marked W, X and Y.(1mark)
- (ii) Describe the characteristics of the savannah vegetation. (6marks)
- (iii) Name the temperate grasslands found in the following countries. (3marks)
 - Canada
 - Russia
 - Australia
- (b) Explain **three** causes of the decline of the areas under forest in Kenya (6marks)
 - (c) You are supposed to carry out a field study on the uses of vegetation in the area near your school.
 - (i) State three reasons why it would be necessary to visit the area before the day of study.

(3marks)

(ii) Give **four** uses of vegetation you are likely to identify during the study. (4marks)

9.	(a)	(i)What is a river divide?	(2marks)
		(ii)Describe three ways by which rivers transport their load.	(6marks)
	(b) St	tate the characteristics of a river in its old stage.	(6marks)
	(c) De	escribe each of the following drainage pattern and system;	
	` '	(i)Super- imposed drainage system	
	(3mai	rks)	
		(ii) Centripetal drainage pattern	(2marks)
	(d)Yo	u have planned to carry out a study of a river in its youthful stage.	
		(i)State two ways in which you would prepare for the study	(2marks)
		(ii) Name two features you are likely to study	(2marks)
		(iii) List two problems you are likely to experience during the study.	(2marks)
10). (a)	(i) What is soil Catena?	(2marks)
		(ii) Draw a well labelled diagram to show a well-developed soil profi	le.
	(5mai	rks)	
		(iii) State three characteristics of soils found in the arid regions of k	Kenya.
	(3mai	rks)	
(3mai	` '	ve three factors that determine the colour of the soil	
	(c)De	scribe how laterization occurs.	
(6mai	rks)		
	(d) Ex	plain how the following farming practices cause soil degeneration.	
		(i) Burning.	(2marks)
		(ii)Continuous application of fertilizer on farm lands	(2marks)
		(iii)Monoculture	(2marks)