Name	Adm No	Class
Index Number	Student's signature	0

312/1 **GEOGRAPHY**

PAPER 1

TIME: 2 HRS 45MIN

December 2021

BUNAMFAN CLUSTER EXAMINATION 2021

Kenya Certificate of Secondary Education

312/1 **GEOGRAPHY**

PAPER 1

TIME: 2 HRS 45MIN

DECEMBER

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index number in the spaces provided at the top of the page\
- 2. Answer all the questions in section **A**.. In section **B** answer question **6** and any other **two** questions from this section.
- **3.** All answers must be written in the answer booklet provided.
- **4.** This paper consist of 5 printed pages.
- **5.** Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no question is missing.

1. a) State how the corriolis force affects the direction of wind. (2 marks)

b) Give **three** characteristics of cumulonimbus clouds

2. The table below shows the mean monthly rainfall and temperature for station

Months	J	F	M	A	M	J	J	A	S	О	N	D
Mean monthly rainfall (mm)	15	8	8	13	31	51	51	51	28	25	18	20
Mean monthly temperature (⁰ C)	-22	-18	-12	-1	4	10	11	11	5	-11	-18	-22

Describe the climatic characteristics represented by the mean monthly rainfall and temperature table station X. (5 marks)

3. a) What is an earthquake (2 marks)

b) Identify the scales used to measure (2 marks)

(i) The intensity of earthquake

5.

(ii) The magnitude of earthquake

4. a) Name **two** types of boundaries according to the plate tectonic theory (2 marks)

b) Give **three** effects of the movement of tectonic plates. (3 marks)

a) State **three** conditions that influence the process of solifluction in mass wasting .

(3 marks)

(3 marks)

b) Give **two** negative effects of mass wasting on the physical environment (2 marks)

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 type of map is the Kijabe

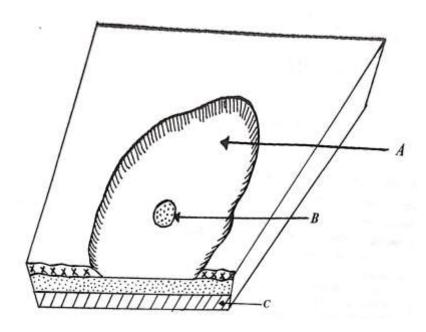
(1 mark)

(ii) In which hemisphere is the area covered by the Kijabe Map located? (2 marks)

(iii) Give the longitudinal extent of the area covered by the Kijabe Map. (2 marks)

	(b) (i) Cover	rt the linear scale of the map into a statement.	(2 marks)			
	(ii	i) Give	six figure grid reference of trigonometrical station 2610.	(2 marks)			
	(c)	(c) On the graph paper provided, reduce the area enclosed by Eastings 34 to 4 Northings 91 to 97 by a scale factor of 2					
		(i)	On the new map, accurately mark the following; (a) All weather road bound surface (b) Forest guard post (c) Githoito plantation (1)	(1 mark) (1 mark) mark)			
	(ii) (Give the	e new scale of the reduced map	(2 marks)			
	(d)	Desc	cribe the vegetation of the area covered by the map	(4 marks)			
		(i)	Citing evidence from the map, explain two factors influencing area covered by the map	trade in the (4 marks)			
7.	a)	(i)	Identify three features found in the sea floor	(3 marks)			
		(ii)	State three sources of ocean salts	(3 marks)			
	b)	Exp	f ocean water				
		(i)	Prevailing winds	(2 marks)			
		(ii)	The earth's rotation	(2 marks)			
	c)	(i)	Identify two cold ocean currents that flows along the west coast	st of Africa. (2 marks)			
		(ii)	State four characteristics of the currents defined in b (ii) above	e. (4 marks)			
	d)	(i)	Explain three effects of cold ocean currents to the climate of the land.	he adjacent (6 marks)			
		(ii)	You intend to carry out a field study on tides in Mombasa. Starinformation you would collect.	te the type of (3 marks)			
3.	a)	Desc	cribe the following wind erosion processes				
		(i)	Abrasion	(2 marks)			
		(ii)	Deflation	(2 marks)			

b) Use the diagram below to answer the following questions.



9

b)

- Name the feature marked A and B (2 marks) (i) State **four** significances of feature A to the human environment (ii) (4 marks) Using a well-labelled diagram, explain how the following features are formed. c) (i) Canyon (6 marks) (ii) Zeugen (6 marks) State **four** characteristics of a barchan d) (4 marks) (i) Define a coastline a) (2 marks) (ii) Give **three** types of a coral reef (3 marks)
- landforms.

Using a well labelled diagram describe the formation of the following coastal

- (i) A Tombolo (6 marks)
- (ii) Off-shore bar (6 marks)

	c)	(i)	Give three factors that determine the size of a wave in the open se	ea.
				(3 marks)
		(ii)	State three uses of coral reefs	(3 marks)
		(iii)	Students from Mombasa high school carried out a field study alon coastline of Indian Ocean. Give the reason for carrying the follow	•
			- Stop watch	
			- Camera	
10.	(a)	(i)	State three characteristics of a maximum thermometer.	(3 marks)
		(ii)	Explain how a maximum thermometer is used to measure temperature.	ture (6 marks)
	b)	Descr	ibe (i) How lake Victoria influences the temperature of the surround	ling region. (4 marks)
		(iii) H	low south east trade wind. Influence temperature at the coast.	(2 marks)
	c)	(i) Ex	plain two ways in which vegetation adapts to climate.	(4 marks)
		(ii) De	escribe the characteristics of equatorial climate	(6 marks)