



312/I MS GEOGRAPHY Paper I MARKING SCHEME November 2023

## THE KENYA NATIONAL EXAMINATIONS COUNCIL KENYA CERTIFICATE OF SECONDARY EDUCATION

GEOGRAPHY

Paper 1

MARKING SCHEME (CONFIDENTIAL)

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## SECTION A

No	Marking Scheme	Marks
1.	Differentiate between weathering and mass wasting.	
*(a)	Weathering is the breaking down/disintegration/decomposition of rocks in	
	situ while mass wasting is the down slope movement of weathered	1 THE R. LEW. P.
		Any 2x 1 = (2marks)
(b)	Identify three ways in which temperature change influences physical	2
	weathering.	
	- It causes block disintegration; - It causes exfoliation;	
	- It causes exfoliation;	2
	- It causes granular disintegration.	Any 3 x 1 = (3marks
2.	Describe how a land breeze occurs.	
	- During the night, the land cools faster than the sea since the land looses	
	heat more rapidly.	
	- High pressure develops over the land, while low pressure is created over	
	the sea.	
	- Warm air above the sea begins to rise. causing low breasure	
	- Cool/cold air over the land flows towards the sea to replace the warm	
	rising air.	
	- This movement of cool air from the land to the sea during the night is	
	called land breeze.	5 (S-marks
3. (a)	Distinguish between weather and climate.	
朱	The state of the s	
	Weather is the state of atmosphere of a given place at a given time/over a short period of time while climate is the average weather conditions of a	
	place observed over a long period of time over 30 years.	2 (2 marks
	State three negative effects of desertification on the physical	(2 marks
(b)	environment.	
	- It leads to destruction of water catchment areas of water }	odise .
	It leads to development of infertile soils, dry soils;	
	It leads to development of dry soils?	
	- It leads to wind erosion (any orision scars) - Loads death/migration of grainals/	Any $3 \times 1 = (3 \text{ marks})$
	1 3x1 3	3
		(5) <sup>2</sup>

(b)	Describe how the following lakes are formed:	
(i)	Moraine dammed:  - A mass of ice approaches a wide low lying area;  - Ice starts to melt at the edge;  - This leads to deposition of terminal moraine across the valley resulting to a transverse ridge.  - More deposition of the terminal moraine raises the transverse ridge;  - As the ice melts, the melt waters accumulates behind the ridge;  - The glacier continues to retreat towards the snow field as it is melting;  - The water that accumulates behind the ridge of terminal moraine forms a moraine dammed lake.	
(ii)	Lagoon	any 6 x 1 = (6 marks)
	<ul> <li>Sand/shingle are moved by the longshore drift and deposited at the entrance of the bay;</li> <li>The deposits gradually accumulate forming a spit/sand bar/ridge;</li> <li>The continued deposition elongates the spit, eventually linking the two headlands to form a bay bar;</li> <li>The bay bar separates part of the sea water from the open sea;</li> <li>The enclosed sea water is the lagoon.</li> </ul>	
	5	11_
		(5 marks)



(d)	Students in a secondary school intend to carry out a field study on	
	soils within their local environment.	
(i)	Give three activities the students are likely to carry out during the	
	study = # Off of the cold	
sate fin	- Collecting/labelling samples of soil.	
a wed	- Collecting/labelling samples of soil.  Taking notes of the sale.  Taking notes of the sale.	
-4-	- Taking photographs videos of the soils.	
	- Field skatching drawing deaglams	
	- Asking and answering questions.  - Advantation of the question naire profile structure for the structure of the structure o	1 3 x 1 = (3 marks)
(ii)	List four properties of soil you would study.	
(11)		
	- Texture	
	- Structure V	
	- Colour	
	- Air	
	- Moisture content/set I water	
	- Porosity/permeability	
	- Temperature	
	- Thickness Hy Lime content	Any 4 x 1 = (4 marks)
	- Organic mattery Humas 154x1 4	7
		05
		2