

KENYA CERTIFICATE OF SECONDARY EDUCATION 2023
❖ **Geography Teachers' Panel .**



312/ 1 **Geography Paper 1**

Geography Teachers' Panel Examination.

TERM 2 Exam

June 2023

2 ¾ HOURS SCHOOL _____

Name..... Index Number.....

Candidate's Signature Date

Instructions To Students

- a) *This paper has **two** sections **A** and **B***
- b) *Answer **ALL** the questions in section **A**.*
- c) *Answer questions **6** and any other **TWO** questions from section **B***
- d) *The paper consist of 6 printed pages*
- e) *Candidates should check the question paper to ascertain that all pages are as printed and that no question is missing*
- f) *Candidates should answer the question in English*



For examiners use only

Section	Question	Maximum's Score	Candidate's Score
A	1-5	25	
B	6	25	
	7	25	
	8	25	
	9	25	
	10	25	
Total		100	

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TURN OVER

This paper consists of 6 printed page

SECTION A

Answer all the questions in this section

1. a. Define an orbit (2mks)

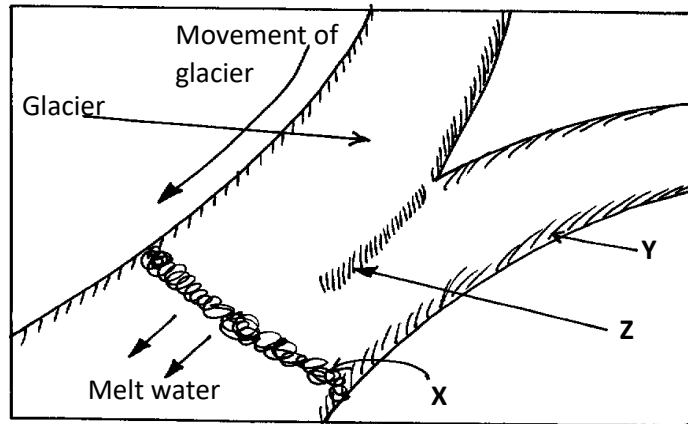
b. What is the longitudinal of a place **X** whose local time is 8.00an, when the local time at Greenwich meridian (0°) at noon? (3mks)

2. (a) Name **three** transitional zones of the atmosphere. (3mks)

b) (i) State any **one** reason why the stratosphere experiences negative lapse rate. (1mks)

(ii) Name the weather instruments used in measuring the rate of evaporation in a weather station. (1mk)

3. a)The diagram below shows the movement of the glacier.



Identify the moraines marked **X**, **Y**, and **Z** (3mks)

(b) State **two** factors that influence the movement of glacier. (2mks)

4. a) i) What is a lake (2mks)

ii) Give three characteristics of Rift valley lakes. (3mks)

5. a) What is soil catena? (2 mks)

b) State three factors that determine the colour of soil. (3 mks)

SECTION B

6. Study the map of Kisumu East 1:50,000 (sheet 116/2) provided and answer the following questions.

(a) (i) Give the longitudinal extent of the Kisumu East map extract. (2mks)

(ii) Give **two** methods used to show relief on the map (2mks)

(iii) State the approximate height of the hill in grid reference 9999 in the map. (2mks)

(iv) Calculate the area of the area enclosed by the regional boundary towards the north west of the map extract (give your answer in square kilometres) (2mks)

(b) (i) Name **two** physical features found in grid square 0698 (2mk)

(iii) Draw a rectangle measuring 10cm by 6cm to represent the area enclosed by Easting's 00 to 05 and Northings 82 to 85 (1mk)

On the rectangle mark and name the following features:

- The river Ombenyi (1mk)
- The villages (1mk)
- Dry weather road (1mk)

(c) Describe the relief of the area covered by the map (3mks)

(d) Citing evidence from the map, identify two functions of the area covered by the map.

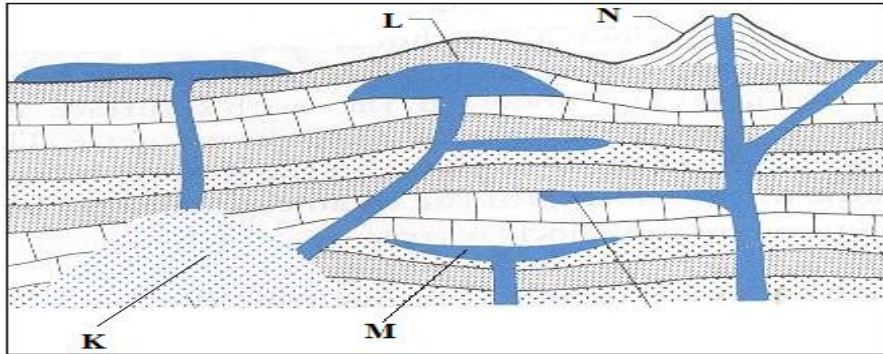
(4mks)

(e) Citing evidence from the map, explain **two** factors that influence the distribution of settlements in the area covered by the map. (4mks)

7. (a) Give two types of volcanoes.

(2mks)

(b) The diagram below represents features of vulcanicity. Use it to answer the questions that follow.



(i) Name the features labeled **K**, **L** and **M**. (3 mks)

(b) Describe how a lava plateau is formed. (3mks)

(c) (i) Name **three** volcanic features found in the rift valley of Kenya. (3mks)

(ii) Explain **four** negative effects of vulcanicity in Kenya. (8mks)

(d) You intend to carry out a field study of a volcanic landscape.

(i) State **four** reasons why its necessary to conduct a reconnaissance of the area of study. (4mks)

(ii) State why you would need the following items.

– Hammer (1mk)

– Polythene bag (1mk)

8. (a) (i) What is a rock? (2 mks)

(ii) Explain the process of formation of mechanically formed sedimentary rocks. (5 mks)

(b) Explain **three** ways in which rocks are significant to economy of Kenya. (6 mks)

(c) Students from your school carried out a field study on the type of rocks:

(i) One of the rock samples they collected is coral.
Give **three** uses of this type of rock. (3 marks)

- (ii) Give **three** methods of data collection they may have used during their study. (3 mks)
- (iii) State **three** problems they are likely to have encountered during the field study. (3 mks)

9. a) i) Define Karst Scenery (2mks)

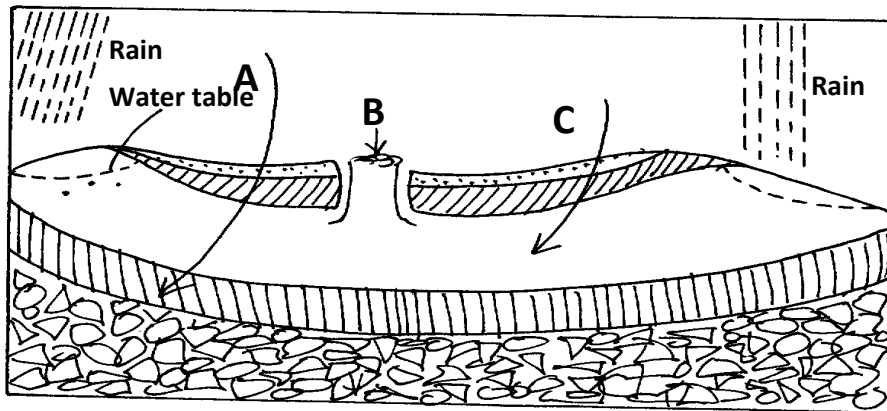
ii) State three conditions necessary for the development of karst landforms (3mks)

b) i) With the aid of well labelled diagrams explain how Grikes and clints are formed (4mks)

ii) Apart from Grikes and clints name two other surface features. (2mks)

c) i) State three reasons why there are few settlements in karst landscapes. (3mks)

d) Use the diagram below to answer the questions that follow



(i) Name the parts marked **A**, **B** and **C**. (3mks)

ii. Give **four** conditions necessary for the formation of the above feature (4mks)

e) Explain two significance of karst scenery to man. (4mks)

10. (a) What is the hydrological cycle? (2mks)
- (b) Describe the following processes of the hydrological cycle. (6mks)
- Surface runoff
 - Percolation
 - Evapo-transpiration
- (c) (i) Explain **three** processes of river transportation. (6mks)
- (ii) State **four** factors that lead to river deposition. (4mks)
- (d) Your class conducted a field study on the work of rivers around your school compound.
- (i) State **three** preparations you made before the field study. (3mks)
- (ii). Give **two** examples of rivers you identified to conduct the field study on river capture. (2mks)
- (iii) Identify **two** problems you might have encountered during the field study. (2mks)

End!

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