

312/1
GEOGRAPHY
PAPER 1
JULY/AUGUST 2014
TIME: 2 $\frac{3}{4}$ HOURS

MUHORONI DISTRICT JOINT EVALUATION EXAM

Kenya Certificate of Secondary Education (K.C.S.E)

Geography
Paper 1

INSTRUCTIONS TO CANDIDATES:

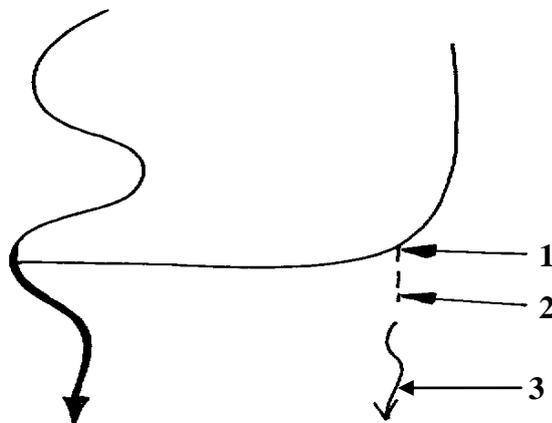
- *This paper has **two** sections A and B*
- *Answer **All** questions in Section A*
- *In section B answer question **6** and any other **two** questions.*
- *All answers **must be** written on a separate answer sheet provided.*

This paper consists of 5 printed pages. Candidates should check to ascertain that all pages are printed as indicated and that no questions are missing.

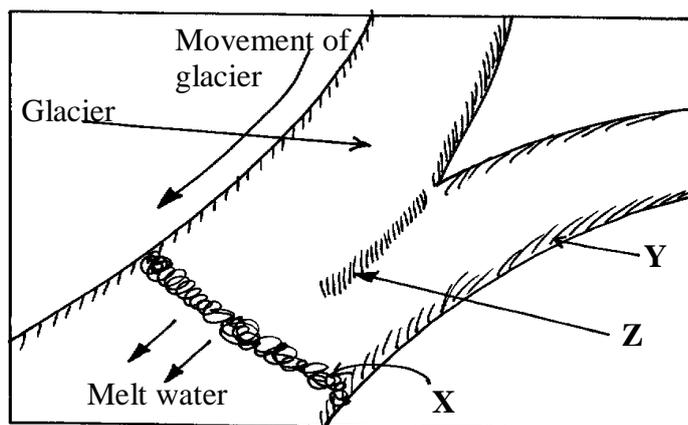
SECTION A

Answer all questions in this section.

1. (a) Define the term Environment. (1mk)
- (b) Highlight **two** types of environment (2mks)
- (c) Briefly explain the relationship between Geography and chemistry. (2mks)
2. (a) State **two** effects of the revolution of the earth. (2mks)
- (b) What is the longitudinal of a place **X** whose local time is 8.00am, when the local time at Greenwich meridian (0°) at noon? (3mks)
3. (a) Define the term mineral (1mk)
- (b) Distinguish between porous and pervious rocks. (2mks)
- (c) List **two** factors that influence the development of a soil profile (2mks)
4. The diagram below illustrates river capture.



- (a) Name the features marked **1, 2** and **3**. (3mks)
- (b) State **two** causes of river rejuvenation. (2mks)
5. The diagram below shows the movement of the glacier.



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

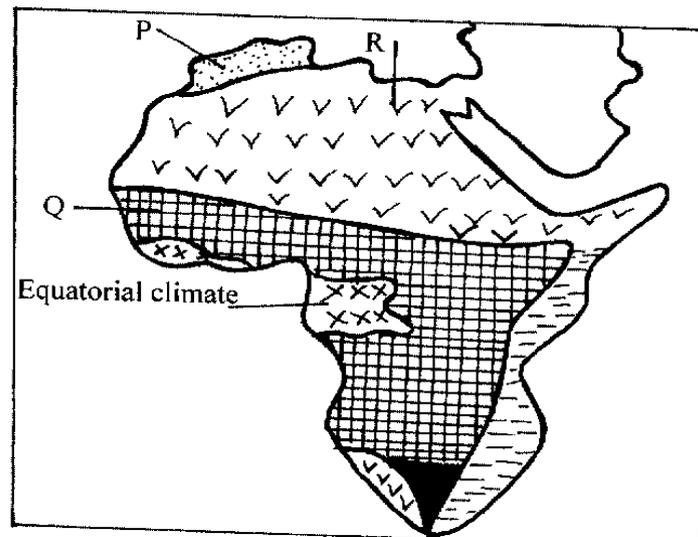
- (b) State **two** factors that influence the movement of glacier. (2mks)

SECTION B

Answer question 6 and other two questions from this section.

6. Study the map of Kitale 1:50, 000 (sheet 75/3) provided and answer the following questions.
- (a) (i) Name **two** administrative divisions of Kitale map extract. (2mks)
(ii) Give the **six** grid reference of Kipsain police post. (2mks)
(iii) Mention **two** methods that have been used to represent relief on the map extract. (2mks)
- (b) (i) Calculate the area of Kitale municipality. Give your answer in km² (2mks)
(ii) Name **two** functions of Kitale township (2mks)
(iii) Give the longitudinal extent of Kitale map extract. (2mks)
- (c) (i) Using reduction fraction of $\frac{1}{2}$, reduce easting 32 to 40 and northing 11 to 17. On the reduced area mark house surface road number C638. (4mks)
(ii) Giving evidence from the map extract, name **two** economic activities carried out within the map extract. (4mks)
- (d) Students from Onjiko high school went out for a field study within the area covered by the map extract. When journey started from Kitale Municipality towards Saiwa farms
- i) What preparations they made before the actual field study. (2mks)
ii) Give **two** reasons why it was necessary to carry out previsit before actual field study. (2mks)
7. (a) (i) Define Mass-wasting (1mk)
(ii) State **three** factors that influence the speed of mass-wasting. (3mks)
- (b) Explain **three** causes of landslides. (6mks)
- (c) (i) State **three** factors necessary for the formation of Karst Scenery (Lime stone landscape) (3mks)
(ii) Using a well labelled diagram, describe the formation of Grikes and Clints (5mks)
- (d) Suppose you carried out a field study of Karst scenery
- (i) Name the underground features you observed. (2mks)
(ii) Give reasons why work-schedule is necessary in fieldwork. (3mks)
(iii) State **two** reasons why Karst landscape is not suitable for settlement (2mks)
8. (a) (i) What is volcano? (1mk)
(ii) Differentiate between the following terms
- Magma and lava (2mks)
 - Solfatara and moffete (2mks)
- (b) Draw an outline map of Kenya (1mk)
On it mark and label;
- Mount Kenya (1mk)
 - Yatta plateau (1mk)
 - Equator (3mks)
- (c) Describe how the following features were formed
- (i) Mount Kenya (4mks)
(ii) Yatta plateau (3mks)
- (d) You are supposed to carry out a field study on a landscape influenced by vulcanicity

- (i) State **three** problems you are likely to experience during the field study? (3mks)
- (ii) Explain **three** negative effects of vulcanicity which you are likely to observe (6mks)
9. (a) (i) Identify **three** processing of wind erosion. (3mks)
- (ii) Give **three** reasons why wind is an effective agent of erosion in hot deserts (3mks)
- (b) Describe how the following features are formed. Illustrate your answer.
- (i) Rock pedestal (5mks)
- (c) State **three** features formed as a result of water action in the deserts. (3mks)
- (d) Muhoroni high school students conducted a field study in Chalbi desert.
- (i) State **three** reasons why they needed to sample part of the desert. (3mks)
- (ii) List **two** sampling techniques they are likely to have used. (2mks)
10. (a) Explain how the following factors influence climate
- (i) Latitudes (2mks)
- (ii) Distance from the sea (2mks)
- (b) Study the climate map of Africa and answer the questions that follow.



- (i) Name the climatic region marked **P** and **Q**. (2mks)
- (ii) Describe **three** characteristics of equatorial climate. (3mks)
- (c) (i) What is climatic change ? (1mk)
- (ii) Explain **two** effects of climate change on the physical environment. (4mks)
- (d) The table below shows rainfall and temperature figures of a station in Africa.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temperature	23	24	23	22	19	17	18	19	19	20	22	23
Rainfall in (mm)	109	122	130	76	52	34	28	38	70	108	121	120

- (i) On the graph paper provided draw a bar graph to represent the rainfall figures. (Use vertical scale of 1cm to represent 10mm). (5mks)
- (ii) Describe the rainfall pattern of the station. (3mks)
- (iii) Calculate the average monthly temperature of the station. (Show working). (2mks)
- (iv) Identify the type of climate represented in the table above. (1mk)

ANSWERS:

Order a copy of answers from www.schoolsnetkenya.com/order-e-copy

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