

NAME:.....INDEX NO:.....

SCHOOL.....DATE:.....

CANDIDATE'S SIGN:

312/1

GEOGRAPHY

PAPER 1

MAY-JUNE 2014

TIME: 2 HRS 45MINS

EKSIKA JOINT EVALUATION TEST

Kenya certificate of Secondary Education

INSTRUCTIONS TO CANDIDATES

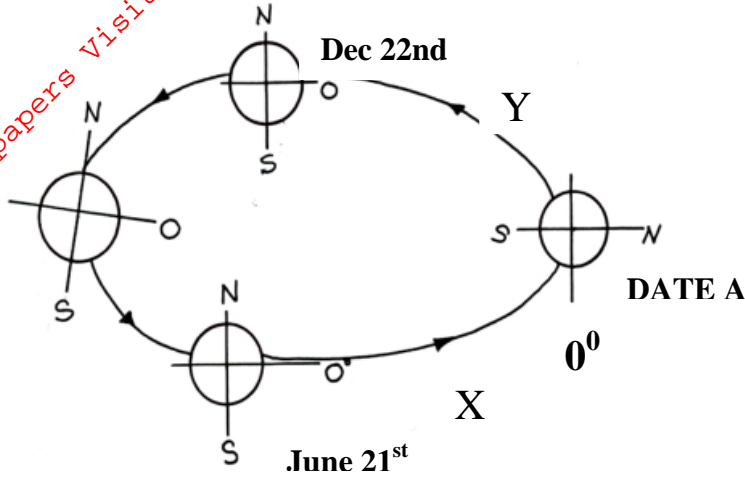
- a) This paper consists of **two** sections **A** and **B**.
- b) Answer all the questions in section **A**.
- c) In section **B** answer question **six** and any other **two** questions
- d) All answers must be written in the answer booklet provided.
- e) Candidates should check the question paper to ascertain that all the pages are printed and that no questions are missing.

This paper consists of 6 printed pages. Candidate should check to ascertain that all pages are printed as indicated and that no questions are missing.

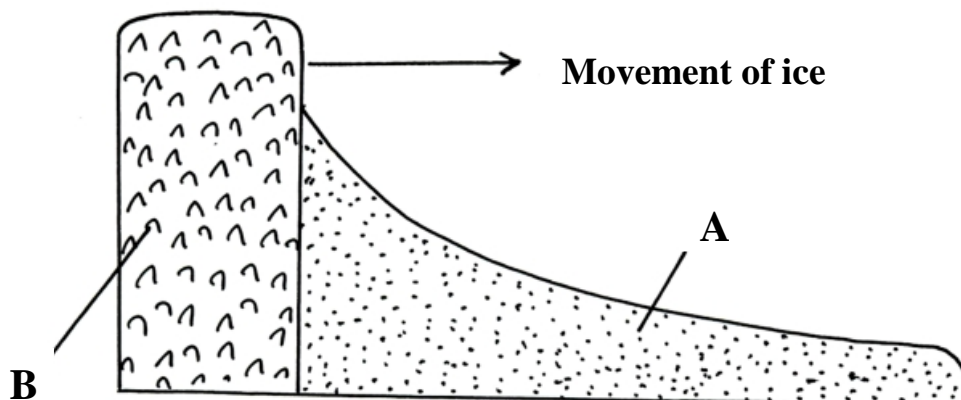
SECTION A

Answer all questions in this section

1. a) Differentiate between rotation and revolution of the Earth. (2mks)
b) Study the diagram below and answer the questions that follow.



- i. Identify the seasons marked X. (1mk)
ii. The date marked A. (1mk)
iii. Give one characteristic of summer solstice. (1mk)
2. a) Describe how a maximum thermometer works. (3mks)
b) State reasons why Stevenson's screen is;
i. Painted white
ii. Has louvers (2mks)
3. a) State three conditions which leads to glacial deposition in Lowlands. (3mks)
b) Study the diagram below of glacial erosion in Lowlands and answer the questions that follow.



Name the parts marked ;

(2mks)

A.....

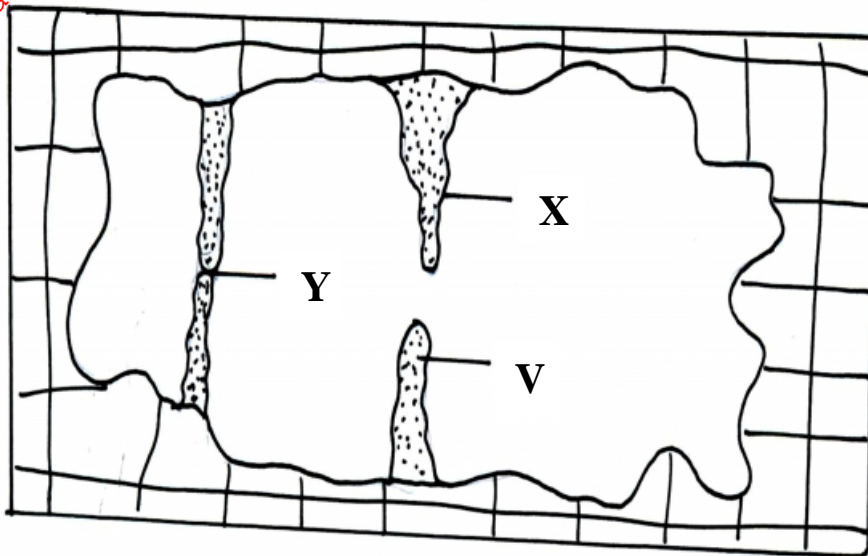
B.....

4. a) Name two features that result from river erosion. (2mks)

b) State three factors influencing the rate of erosion. (3mks)

5. The diagram below represents underground feature in a limestone area.

Use it to answer question (a)



a) Name the features marked ;

X.....

Y.....

b) Describe how the feature marked V is formed. (3mks)

(3mks)

SECTION B

Answer question 6 and any other two questions

6. Study the map of Karatina 1:50,000(sheet 121/3) provided and answer the following Questions.

a) i) What was the magnetic declination of the map as at January 1992. (1mk)

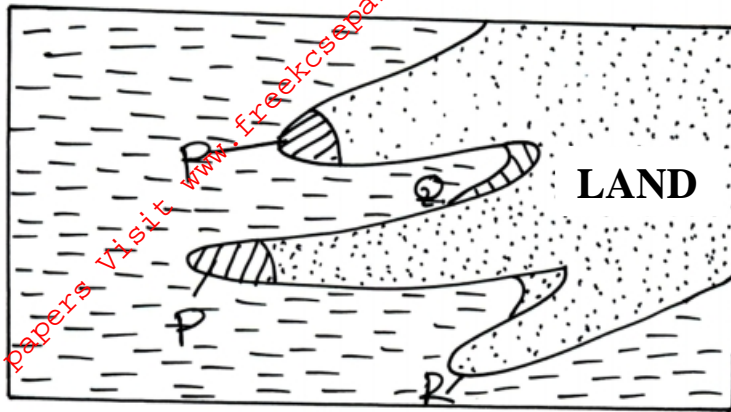
ii) Give the Latitudinal and Longitudinal extent of the mapped area. (2mks)

b) i) A part from contours, name one other method used to show relief in the mapped area. (1mk)

ii) Calculate the area of Mt. Kenya forest reserve within Kirinyaga District shown in the map. Give your answer in square kilometers. (2mks)

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- c) i) A part from houses, Name two human made features in grid square 8755. (2mks)
 ii) Assume that four people lived in each house in the grid square 8755. Calculate the population density. (3mks)
- d) Describe the flow of River Sagana. (3mks)
- e) i) Using evidence from the map, identify two farming activities taking place in the mapped area. (2mks)
 ii) Explain three factors which have influenced any one of the farming activities identified in e (i) above. (6mks)
- f) Briefly explain how the following factors have influenced the distribution of Settlement in the mapped area.
- i. Forest Reserve (2mks)
 - ii. Rivers (2mks)
7. a) i) What is the difference between plutonic and volcanic rocks. (2mks)
 ii) Give two examples of plutonic rocks. (2mks)
- b) i) Describe the following characteristics of minerals.
- i. Lusture (2mks)
 - ii. Colour (2mks)
 - iii. Hardness (2mks)
- c) Explain three ways in which sedimentary rocks are significant to the Kenyan Economy. (6mks)
- d) Form four students of Kwale school intend to carry out a field study on rocks within Seme in Kisumu County
- i. Give the major rock type are likely to study. (1mk)
 - ii. Give three secondary sources of information they would use to prepare for the field study. (3mks)
 - iii. State why they would need the following
 - Hammer (1mk)
 - Route map (1mk)
 - Working schedule (1mk)
8. a) i) What is a coast? (2mks)
 ii) Distinguish between a coast line and shore line. (2mks)
- b) The sketch diagram below represents a coastal Landscape.

Study it carefully and answer questions b i



i) Name the factors labeled PQR (3mks)

P.....

Q.....

R.....

ii) Describe how blow holes and geos are formed

- Blow hole (3mks)

- Geos (2mks)

c) i) Name the features that result from the process of Long shore drift. (3mks)

ii) With the aid of a sketch diagram, explain the process of Long shore drift. (3mks)

d) Students of Mwatate School conductes a field study on coastal emergence Along the coast of Kenya.

i. State **two** objectives of their study (2mks)

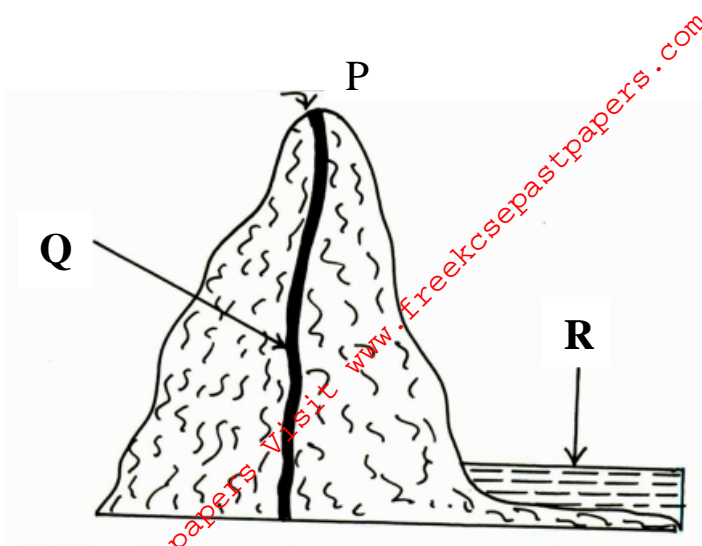
ii. List **three** major evidences they identified to prove that the coast of Kenya is partly as a result of coastal emergence they observed. (3mks)

iii. Give three methods they used to record data. (3mks)

9. a) i) Name two district types of glacier. (2mks)

ii) State four factors that influence the rate of glacial erosion. (4mks)

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



P..... (1mk)

Q..... (1mk)

R..... (1mk)

b) ii) Explain the formation of the part marked Q. (3mks)

c) i) Explain four significance of a glaciated Landscape to human activities. (8mks)

d) Students in a school in Homabay County carried out a field study on Mt. Kenya.

i) State 2 objectives for their study. (2mks)

ii) List three methods they would use to record data during the field study. (3mks)

10. a) i) Define the term soil. (2mks)

ii) Give 2 factors that determine soil leaching. (2mks)

b) i) List two components of soil. (2mks)

ii) Name three processes involved in soil formation. (3mks)

c) i) Why is humus important in soil? State four significances. (4mks)

ii) Differentiate between soil profile and soil cateria. (2mks)

d) Your class members intend to conduct a field study on an area under the effect of soil erosion within their district.

i) Name two types of soil erosion they are likely to identify during the study. (2mks)

ii) State the use of the following tools and equipments during their study.

A hoe (2mks)

Polythene bag (2mks)