

312/1

GEOGRAPHY

PAPER 1

JULY/AUGUST, 2024.

TIME: 2 HOURS 45 MINUTES.

MOKASA II JOINT EXAMINATION.

Kenya Certificate of Secondary Education.

312/1

Paper 1

GEOGRAPHY

NAME: ADM NO.....

Candidates signature..... Date.....

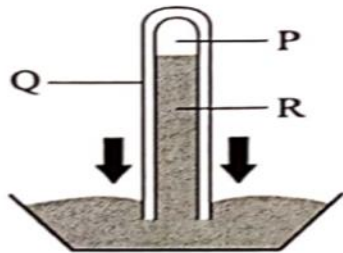
INSTRUCTION TO STUDENTS.

- a. Write your name and admission number in the spaces provided.*
- b. Sign and write the date of the examination in the spaces provided above.*
- c. This paper has two sections A and B.*
- d. Answer ALL the questions in section A.*
- e. Answer question 6 and any other TWO questions from section B. .*
- f. Answers must be written in the spaces provided at the end of question 10.*
- g. This paper consists of 5 printed pages.*
- h. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
- i. Candidates should answer the questions in English.*

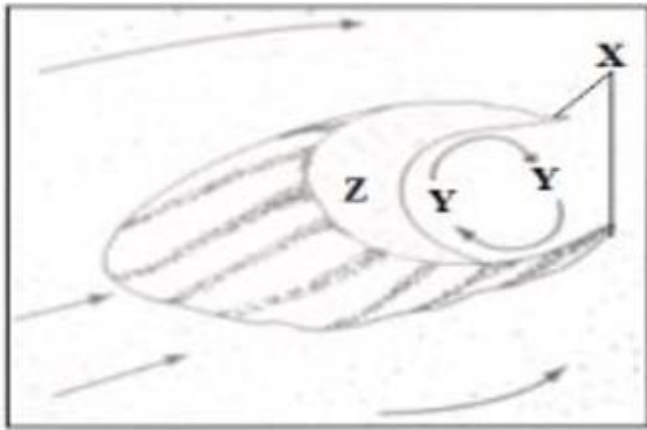
SECTION A: 25 MARKS

Answer ALL questions in this section.

1. a). State the relationship between geography and meteorology (2 Marks)
b). Give three divisions of physical geography (3 Marks)
2. The diagram below shows a barometer



- a.) Identify the parts marked P and Q (2 Marks)
- b). State three ways in which cloud cover influences sunshine (3 Marks)
- 3.) a.) Define the term lake (2 marks)
b.) Identify three types of lakes formed by glacial action (3 marks)
- 4 a). Give two sources of underground water (2 Marks)
b). Identify three reasons why there are few settlements in the karst region (3 Marks)
- 5a.) List two types of sand dunes apart from barchans (2 Marks)
- b). The diagram below shows a Barchan.



Identify:

- i.) Feature marked X (1 Mark)
- ii.) Slope marked Z (1 Mark)
- iii.) The air current marked Y (1 Mark)

SECTION B

*Answer question 6 and any other **TWO** questions from this section.*

6. Study the map of Mumias 1:50,000 (101/2) provided and answer the following questions.

- (a) (i) What is the magnetic variation of the area as at 1965? (2 marks)
- (ii) What is the bearing of the Air Photo Principle in grid square 6037 from Air Photo Principle in grid square 5340? (2 marks)
- (iii) Give the six figure grid reference of the trigonometrical station **101 S5** in the southern part of the area covered by the map. (2 marks)
- (b) (i) Calculate the area covered by Nyanza province. Give your answer in km^2 (2 marks)
- (ii) Draw a square 10 cm by 10 cm to represent the area enclosed by Easting 46 and 51 and Northings 33 and 38. On its mark and name the following; (5 Marks)
- Provincial boundary
 - All Weathered Road loose surface
 - Mungayo school
 - Seasonal swamps
- (c) (i) Describe the distribution of settlement in the area covered by the map. (6 marks)
- (ii) Explain **three** factors that favor the location of Mumias town. (6 marks)

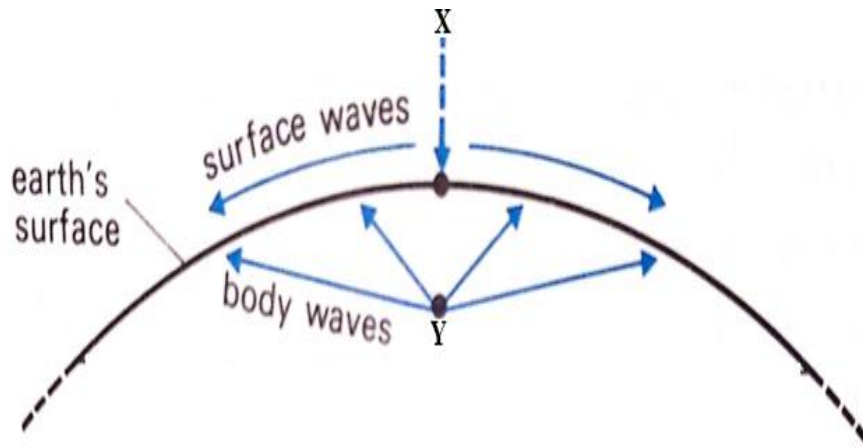
7. (a)(i) Differentiate between earth movements and earthquakes. (2 Marks)

(ii) State **three** causes of earth movements. (3 Marks)

(iii) Give **four** evidences supporting the continental drift theory. (4 marks)

(iv) Name **three** features associated with the continental drift theory. (3 marks)

(b) Study the diagram provided below and use it answer the questions that follow.



(i) Identify the parts marked **X** and **Y**. (2 marks)

(ii) Identify the **two** scales used to measure earthquake's intensity. (2 marks)

(c)(i) Name **three** major earthquake zones of the world. (3 marks)

(ii) Explain **three** effects of earthquakes on the earth's crust. (6 marks)

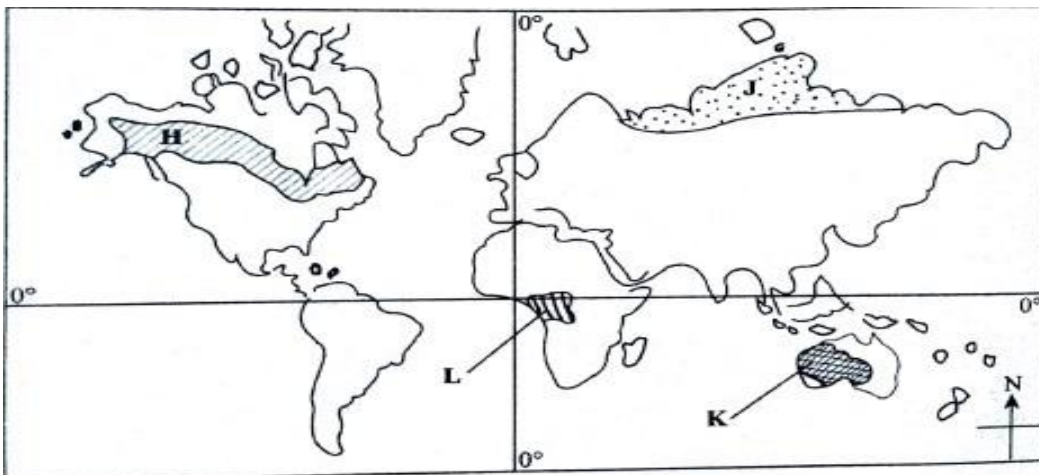
8.(a) (i) Define the term natural vegetation? (2 Marks)

(ii) Explain how the following factors influence the distribution of natural vegetation in East Africa.?

➤ Climate (4 Marks)

➤ Soils. (2 Marks)

(b) The map below show the distribution of world vegetation regions of the world. Use it to answer question (b) (i) and (ii) below.



- I. Identify the vegetation zones marked H and J. (2 Marks)
 - II. Describe the characteristics of the vegetation found in the area shaded and marked L. (5 Marks)
- c).State three uses of Savanah vegetation. (3 Marks)
- d).Form four students of Highlands High school conducted a field study within Kaptagat forest.
- I. State two objectives for their study. (2 Marks)
 - II. Give three importance of sampling as a method of collecting data. (3 Marks)
 - III. State two problems they experienced during the study. (2 Marks)
9. (a) (i) Distinguish between river discharge and river regime. (2 marks)
- (ii) Describe the following river erosional processes.
- Abrasion (3 marks)
 - Hydraulic action. (3 marks)
- (iii). State two factors influencing the rate of river erosion. (2 Marks)
- (b) (i) Name **three** features formed due to river rejuvenation. (3 marks)
- (ii) Describe the formation of an ox-bow lake. (6 marks)
- (c) Explain **three** negative effects of the rivers to human environment. (6 marks)
10. (a)(i) Apart from stack, name two other wave erosional features. (2 marks)
- (ii) State three factors influencing the rate of wave erosion. (3 marks)
- (iii) With aid of well labelled diagrams, describe formation of a stack. (8 marks)
- (b)(i) Name two types of submerged highland coasts. (2 marks)
- (ii) State four conditions necessary for the growth of coral polyps. (4 marks)
- (c) Explain three significance of oceans to human activities. (6 marks)

