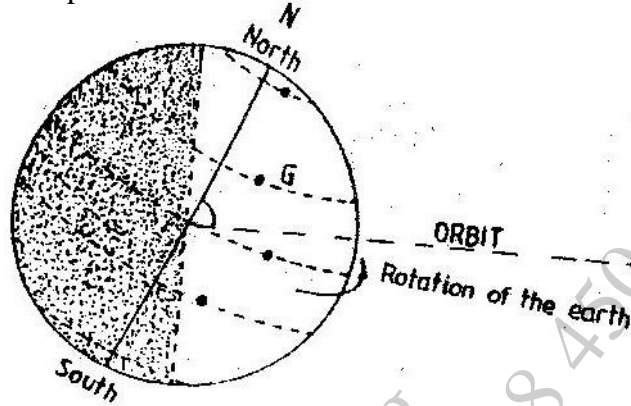


GEOGRAPHY PAPER 312/1 K.C.S.E 1998

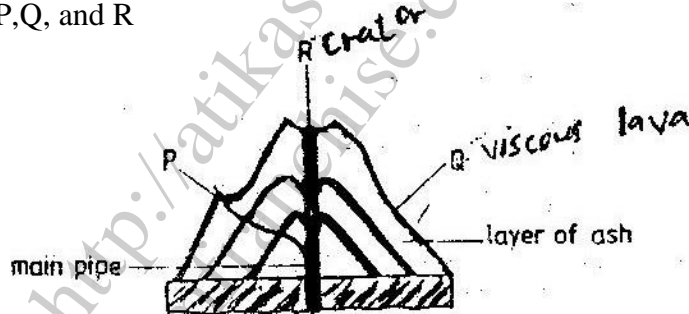
SECTION A

Answer all the questions in this section

1. The diagram below represents the earth on its axis. Use it to answer question (a)



- (a) (i) Name the latitude marked G
(ii) What is the angle of inclination of the earth's axis from its orbit?
(b) State two effects of the rotation of the earth
2. (a) What is magma?
(b) Differentiate between a sill and a dyke
(c) The diagram below represents a composite volcano. Name the features marked P, Q, and R



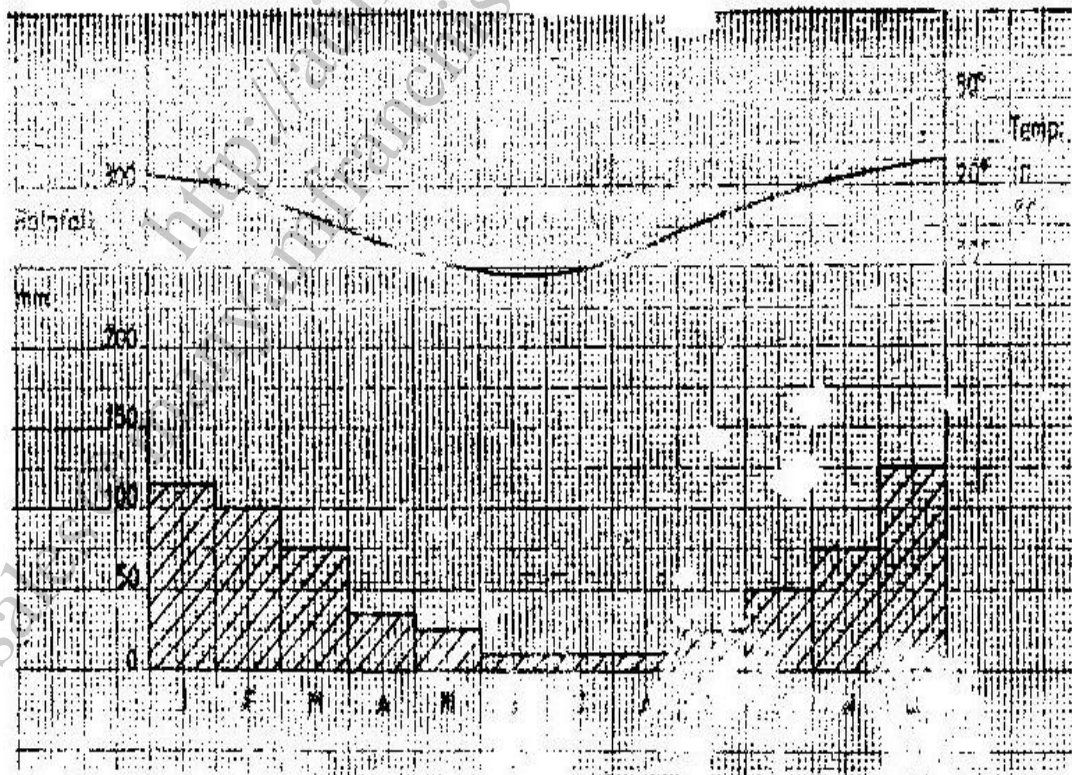
3. (a) State three causes of earthquakes
(b) Give two effects of earthquakes in built up areas
4. (a) name the type of delta found at the mouth of
(i) River Nile
(ii) River Omo
(b) State three conditions that are necessary for the formation of delta
5. (a) name three external land forming processes that lead to the formation of lakes
(b) State two ways in which lakes influence the natural environment

SECTION B

Answer questions 6 and any other two questions from this section

6. Study the map of Mariakani (1:50,000 sheet 197/4) provided and answer the following questions
(a) (i) What type of map is Mariakani sheet?

- (ii) From the marginal information, identify the two districts covered by the map
- (iii) Calculate the area of Mavirivirini sub- location. Give your answer in square kilometers.
- (b) Citing evidence from the map, explain three factors that favour cattle rearing in Mariakani area.
- (c) Citing evidence, state three functions of Samburu town
- (d) Some students are required to carry out a field study on water supply in south Samburu Division.
 - (i) State four problems they are likely to encounter in administering questionnaires to residents of the area.
 - (ii) Measure the length of a water pipeline proposed by the students from existing line at grid reference 303796 to Mwandoni settlement at grid reference 325720. Give your answer in Kilometers.
 - (iii) Calculate the vertical rise (amplitude of relief) of the proposed pipeline.
- 7.
 - (a) (i) What is the difference between weathering and mass wasting
 - (ii) List Five process involved in chemical weathering
- (b) Explain five ways in which soil creep occurs
- (c) Describe three effects of soil creep
- 8. The graph below represents the climate of a station in Africa. Use it to answer question
 - (a)



- (i) Describe the characteristics of the climate represented by the graph
- (ii) Describe the type of natural vegetation likely to be found in an area with the type of climate represented by the graph.
- (b) Explain four factors that influence climate.
- (c) You intend to carry a field study on the weather experienced in the locality of your school
 - (i) State three ways in which you would prepare for the study
 - (ii) Describe how you would use the following instruments during the study
 A rain gauge (Used to collect rain water)
 Maximum and minimum thermometer
 - (iii) State three advantages of studying the weather through fieldwork

9. (a) On the outline map of Africa provide, name the features marked X, Y and Z



- (b)
 - (i) Name four folds
 - (ii) With the labeled diagrams, describe the formation of fold mountains
 - (iii) Explain four ways in which fold Mountains influence human activities.

GEOGRAPHY PAPER 312/2 K.C.S.E 1998

SECTION A

Answer all the questions in this section

1. (a) what is urbanization?
(b) State three factors which have led to the development of Mombasa as a major sea port in the region
2. (a) State three physical conditions necessary for the location of hydroelectric power dam
(b) Apart from production of hydro- electric power, name two other benefits of Kariba dam
3. (a) Give three reasons why road transport is used more than air transport in East Africa
(b) In what three ways does Kenya benefit from air links with the rest of the World?
4. List for problems that are experienced in pyrethrum farming in Kenya
5. (a) What is soil conservation
(b) State three farming methods that assist in soil conservation

SECTION B

6. Study the photograph below and answer question (a)

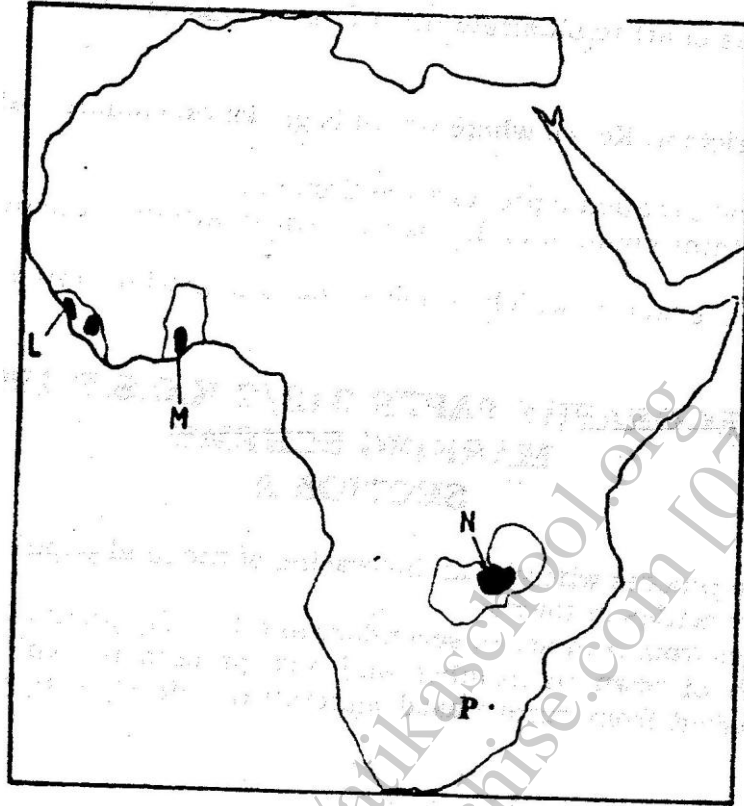


- (a) (i) Draw a rectangle 16cm by 10 cm to represent the area of the Photograph
(ii) On the rectangle, show the following
(iii) If the train shown on the photograph was traveling to Mombasa, Name two export commodities it is likely to be carrying
(iv) Describe the distribution of the vegetation in the area shown on the photograph.

(b) Explain five factors that limit the exploitation of tropical rain forest in Africa.

(c) Explain three measures being taken to conserve forests in Kenya

7. Use the map of Africa below to answer questions (a)



(a) name:

(i) The main minerals mined in the shaded area marked L,M,N (3mks)

(ii) The mining town marked P (1mk)

(b) (i) Apart from deep shaft mining, name three other mining methods (3mks)

(ii) Describe how shaft mining is carried out (6mks)

(c) Explain four ways in which mining contributes to the economy of Kenya (8mks)

(d) State four negative effects of mining on the environment (4mks)

8. (a) (i) What is industrialization (2mks)

(ii) Name a town in Kenya where each of the following industries are located

❖ Oil refining (1mk)

❖ Paper manufacturing (1mk)

❖ Motor vehicle assembly (1mk)

(b) Explain five factors which influenced the location of iron and steel industry in the Ruhr region of Germany

(c) Give five reasons why the development of the Jua Kali industry is encouraged in Kenya.

9. World wheat production by regions

| Region | % of wheat produce |
|---------------|--------------------|
| Asia | 35 |
| Europe | 22 |
| North America | 19 |
| USSR | 16 |
| Others | 8 |

- (a) Draw a pie chart to illustrate the information given above. (5mks)
- (b) Name
- (i) Two districts in Kenya where wheat is grown on commercial scale (2 mks)
- (ii) Two wheat producing provinces of Canada (2mks)
- (c) Explain three conditions that favour wheat farming in Kenya (6 mks)
- (d) Explain five factors which enable Canada to produce more wheat than Kenya (10mks)