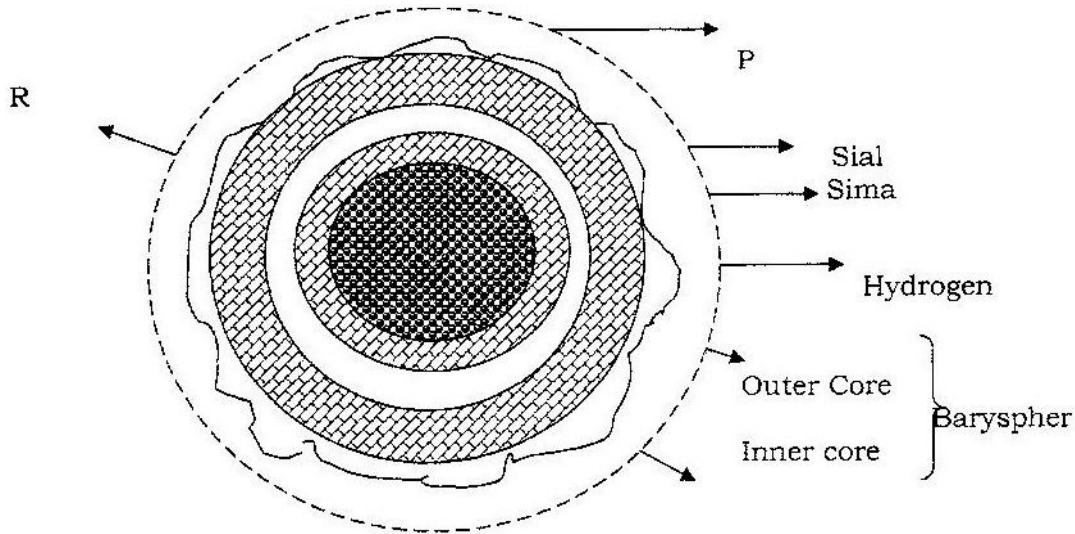
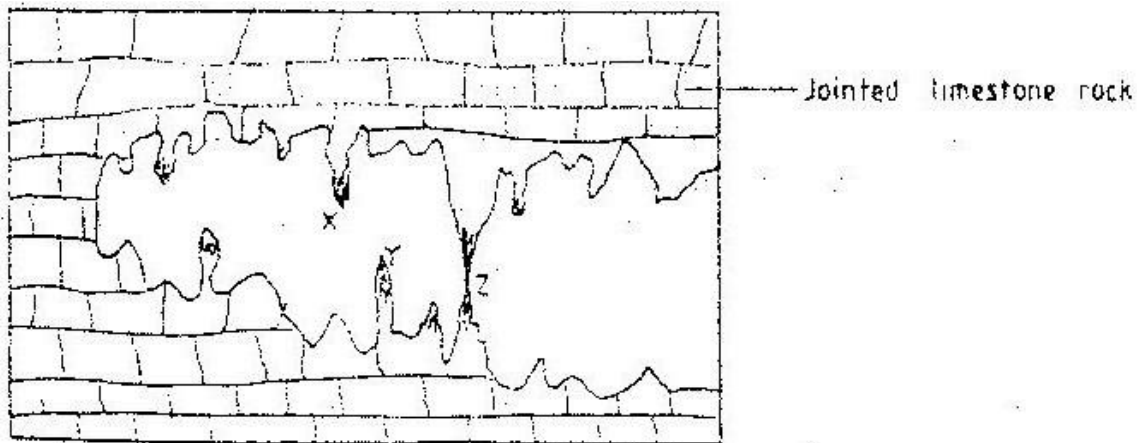


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SECTION A
Answer all the questions in this section.

1. The diagram below shows the structure of the earth.

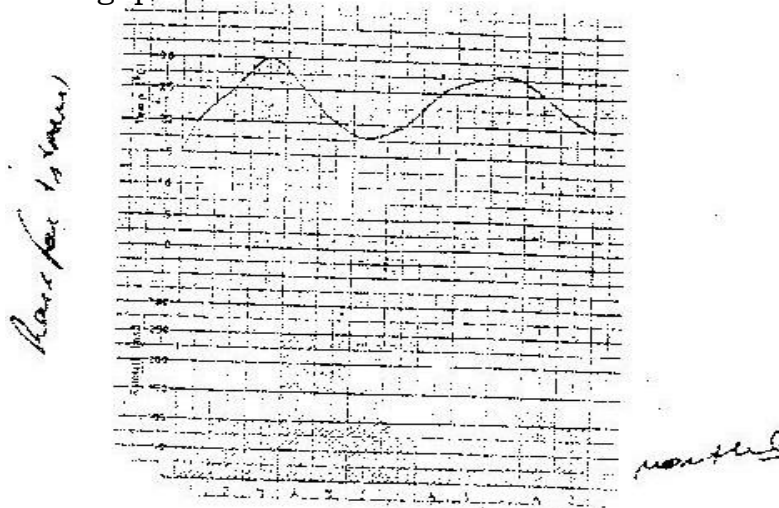


- a) Name the parts marked p, q and R (3mks)
 - b) Name the minerals that make up Sima (2mks)
- 2 a) Draw a well labeled diagram of the hydrological cycle (5mks)
- b) State two ways in which underground water may reach the surface of the earth (2mks)
3. The diagram below shows some features found in a Karst scenery



- Name the features marked X,Y and z (3mks)
- a) What is mass wasting? (1mks)
 - b) State five factors which influence mass wasting. (5 mks)

- 5 a) Differentiate between weather and climate (2mks)
 b) The graph below shows climatic characteristics of a station in Kenya. Use it to answer the following questions.



- i) Calculate the annual range temperature. (1mk)
 ii) Calculate the total amount of rainfall received at the station (1mk)

SECTION B

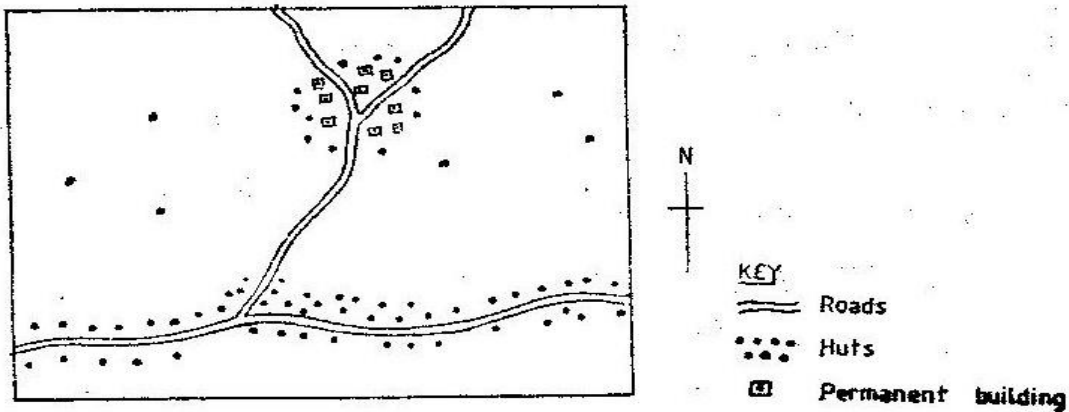
Answer questions 6 and any other two questions

6. Study the map provided (Kericho 1:50,000 sheet 117/4) and answer the following questions.
- a)(i) What feature is found at grid reference 691700? (2mks)
 (ii) Name two man-made features found in Grid square 6269. (2mks)
 (iii) Measure the length of the dry weather road E222 from the junction at Kipchimchim (grid reference 530640) to the junction with all weather road in the grid square 5863, Give your answer in kilometers (2mks)
- b) Using a scale of 1cm to represent 50m, draw a cross-section from grid reference 570670 to grid reference 620670 and name the following:
 (i) A river
 (ii) A motorable track
 (iii) Houses (6mks)
- c) Describe the drainage of the area to the northwest of the Kericho-Lumbwa all weather road. Cite examples of the drainage patterns identified. (6mks)
- d) Apart from the forests, name two other types of vegetation found in the area covered by the map. (2mks)
- e) Students of a school in Kericho used the map of Kericho to prepare for a field study on tea growing in the area.
 i) Citing evidence from the map, state three conditions that favour tea growing in the area. (3mks)
 (ii) State three methods the students may have used to collect information during their study. (3mks)

- 7a) Draw sketch map of Kenya on it, mark and name the
- (i) Lake Turkana (1mk)
 - (ii) River Athi (1mk)
 - (iii) Mount Kenya (1mk)
 - (iv) The equator (1mk)
- b) Describe the climate conditions experienced in the Kenya highlands.
- c) Explain four ways in which vegetation in the Nyika region of Kenya has adapted to the climate conditions experienced in the area. (8mks)
- d) Explain how the presence of a cold ocean current influences the climate of the adjacent coastlands. (4mks)
- 8 a) With the aid of well labeled diagrams, describe the processes involved in the formation of a corrie lake. (8mks)
- b) Explain four ways in which a glaciated landscape is of significance to human activities. (8mks)
- c) Suppose students were to carry out a field study on glaciations on Mt. Kenya.
- (i) Give two reasons why they would need a route map (2mks)
 - (ii) Name two types of moraines they are likely to study (2mks)
 - (iii) State two problems they are likely to experience during the field study. (2mks)
- 9 a) Give three examples of chemically formed sedimentary rocks. (3mks)
- b) (i) State three conditions necessary for the growth of coral. (3mks)
(ii) Describe how coral racks are formed. (4mks)
- c) Explain four ways in which rocks contribute to the economy of Kenya (8mks)
- d) Some students are planning to carry out a field study on rock weathering around their school.
- (i) List three secondary sources of information they are likely to use as they prepare for the field study. (3mks)
 - (ii) a part from using secondary sources, state four other ways in which the students would prepare themselves for the field study. (4mks)

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SECTION A
Answer all the questions in this section

1. a) Name two breeds of dairy cattle reared in Kenya(2mks)
 b) State three factors which favour dairy farming in Denmark (3mks)
2. a) State three physical factors which influence the location of settlements. (3mks)
 b) Use the sketch map below to answer questions (i) and (ii)



Name the main settlement pattern in:

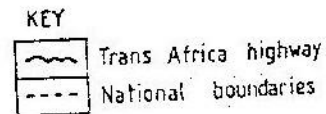
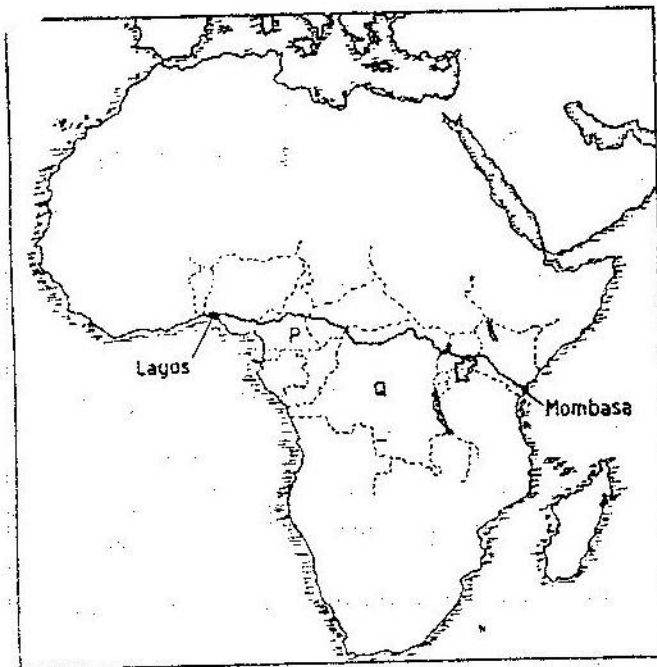
- i) The northern part of the area represented by the map.
 - ii) The southern part of the area represented by the map.
3. a) State three reasons why marine fisheries in Kenya are underdeveloped.
 b) State three ways through which fish farming contributes to the economy of Kenya.
 4. a) Name two conditions that are necessary for the formation of petroleum
 b) List three ways in which opencast mining affects the environment.
 5. State four factors that have influenced the development of industries in Eldoret town.
 6. Study the photograph below and use it to answer the question (a)



7

- a) i) Name the type of photograph given above.
 - ii) Draw a rectangle measuring 17cm by 12cm to represent the area of the photograph. On it sketch and label the main features shown on the photograph.
 - iii) Describe the landscape of the area represented by the photograph
 - b) i) Name two rivers in Kenya which cause large scale flooding
 - ii) Explain four ways in which people are affected by floods
 - c) Explain three methods which floods can be controlled.
- 8
- a) Apart from Mea, name three large irrigation schemes in Kenya.
 - b) Explain four conditions that made Mea a suitable location for irrigation scheme
 - c) Explain three problems experienced by farmers in the Gezira irrigation scheme.
 - d) Explain three problems experienced by farmers in the Gezira irrigation scheme.

Use it to answer question (a)



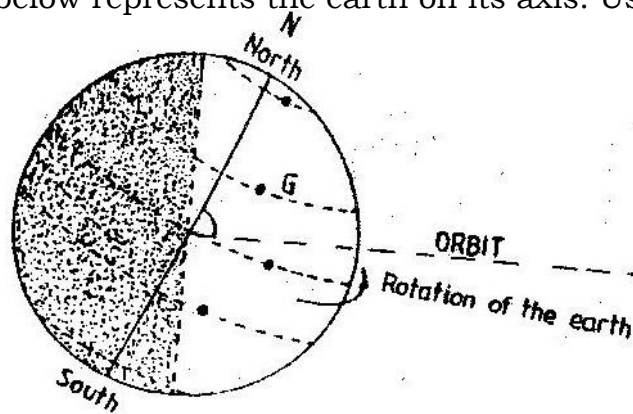
- a) i) Name the countries marked P and Q
- ii) State three reasons why it is difficult to transport goods from Mombasa to Lagos along the highway.
- b) Explain three problems facing rail transport in Kenya.
- c) Explain four ways through which the Kenyan government promotes internal trade.
- d) Explain the three ways through which Kenya is likely to benefit from renewed East African Co-operation.

9. a)(i) Define the term tourism.
(ii) Name two tourist attraction found in the Rift valley province of Kenya.
- b) Explain four factors which hindered the development of domestic tourism in Kenya.
- c) Explain three problems experienced by the Kenya government in its effort to conserve wildlife.
- d) Explain four factors which have made Switzerland a major tourist destination in Europe .

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SECTION A

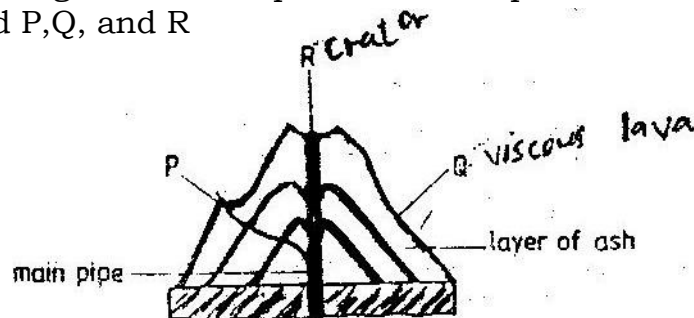
Answer all the questions in this section

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



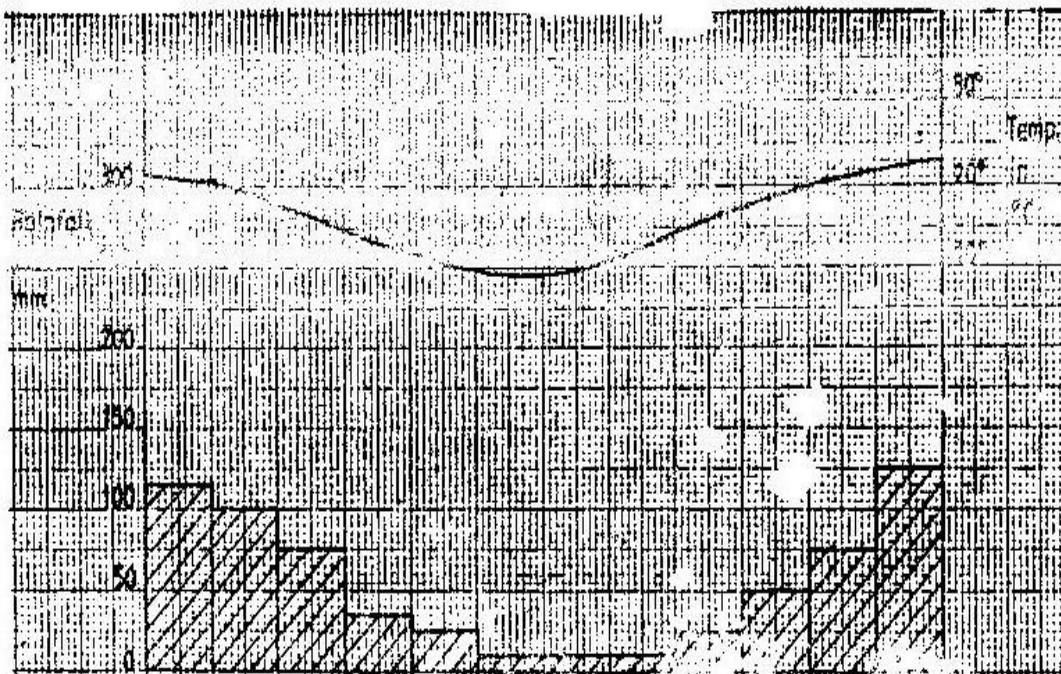
3. (a) State three causes of earthquakes
(b) Give two effects of earthquakes in built up areas
4. (a) name the type of delta found at the mouth of
(i) River Nile
(ii) River Omo

- (b) State three conditions that are necessary for the formation of delta
5. (a) name three external land forming processes that leads 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 out line 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.