GEOGRAPHY PAPER 1 1996

SECTION A

Answer all the questions in this section in the spaces provided.

1. a) List two features resulting from extrusive volcanic activity. (2mks)
   b) State four ways in which volcanicity has influenced human activities in Kenya. (4mks)

2. The block diagram below represents part of earth’s crust which has been subjected to tensional forces.

   ![Block Diagram]

   a) Name (i) the slope marked A (1mk)
   b) State three ways in which faulting can influence drainage systems. (3mk)

3. a) What is isobar? (1mk)
   b) List four characteristics of modified Equatorial Climate (such as experienced in the lake Victoria Basin). (4mks)

4. a) If the local time in Nairobi at longitude 37°E is 10.00 a.m.
   What will the time be at Buchanan in Liberia at longitude 10°W? (2mks)
   b) What is the effect of the international date line on time? (2mks)

5. a) Give three examples of mechanically formed sedimentary rocks. (3mks)
   b) State two changes that occur in sedimentary rocks when they are subjected to intense heat and pressure. (2mks)

SECTION B

Answer question 1 and any other two questions from this section in your Booklet.

1. Study the map of Ithanga (1:50,000 sheet 135/4) provided and answer the following questions.
   a) i) Give a six-figure grid reference for the trigonometrical station to the south-east of the area covered by the map (1mk)
   ii) What is the bearing of the school at Kamwiendei village from the church at Riakanau? (1mk)
   iii) Measure the length of the dry weather road (E 625), from the junction at Karaba shops to where it ends at Riakanau village. Give your answer in kilometers (2mks)
   iv) Calculate the area of Tebere B in the northern part of the map. Give your answer in square kilometers (2mks)
   b) Student from one of the schools in the area covered by the map carried out a field study on the physical features and economical activities found in the area.
i) Name two types of natural vegetation they are likely to have identified. (2mks)

ii) Citing evidence from the map, name three economic activities the students are likely to have identified during their study. (3mks)

iii) Citing evidence from map, name two methods the students are likely to have used to cross River Tana. (2mks)

c) Describe the drainage of the area covered by the map. (4mks)

d) Describe the distribution of settlements in the area covered by the map. (3mks)

e) Draw a rectangle 15cm by 10cm to represent the area west of Easting 20 and south of northing 00. On the rectangle, mark and name:
   i) The provincial boundary (4mks)
   ii) Ithanga hills (4mks)
   iii) The sisal plantation to the south west of the area (4mks)

2 a) i) What is river divide? (6mks)
   ii) Describe three ways by which a river transports its load. (6mks)

b) Describe the characteristics of a river in its old age. (7mks)

c) Describe each of the following drainage patterns:
   i) Superimposed drainage pattern (3mks)
   ii) Centripetal drainage pattern (2mks)

d) You have planned to carry out a study of a river in its youthful stage.
   i) State two ways in which you would prepare for the study. (2mks)
   ii) Name two feature you are likely to study. (2mks)
   iii) List two problems you are likely to experience during the study. (2mks)

3. a) List four processes through which costs are eroded. (4mks)

b) Using well-labeled diagram, explain how each of the following features is used formed.
   i) A spit (4mks)
   ii) A blow hole (2mks)
   iii) An a toll (5mks)

c) Some student carried out a field study on the coastal features found along the coast of Kenya.
   i) List three features formed as a result of coastal emergence that they are likely to have studied. (3mks)
   ii) State three methods the student may have used to record their data. (2mks)
   iii) Describe two ways in which features resulting from coastal emergence are of significance of Kenya. (2mks)

4. a) List
   i) Four characteristics of desert soil (4mks)
   ii) Two factors that contribute to soil leaching (2mks)

b) Explain how each of the following factors influences the formation of soil:
   i) Parent rock (2mks)
   ii) Living organisms (2mks)
   iii) Topography (2mks)

c) Draw a well labelled profile of mature soil (5mks)
d) Explain four ways in which human activities contribute to soil erosion. (8mks)
1. a) Name **two** horticultural crops grown in Kenya (2mks)
b) State **three** reasons why horticulture is more developed in the Netherlands than in Kenya. (3mks)

2. Give **five** reasons why the government of Kenya encourages the establishment of jua kali industries. (5mks)

3. Use the map of Kenya below to answer question (a)

   ![Map of Kenya](image)

   a) Name
   i) The national park marked X (1mk)
   ii) The game reserve marked Y (1mk)
   iii) The marine reserve marked Z (1mk)

   b) Apart from establishing national parks and game reserves, state three other ways through which the government of Kenya conserves wildlife. (3mks)

4. a) Name two towns in Zambia, located within the copper mining region (2mks)
b) State three ways through which Zambia has benefited from the exploitation of copper deposits in the country.

5. a) Give two reasons why hardwood tree species in Kenya are in danger of extinction (2mks)
b) State two ways in which softwood forest in Kenya differ from those of Canada. (2mks)
SECTION B
Answer question 1 and any other two questions from this section in your answer booklet.

1. The table below shows the number of passengers that used railway transport in the selected countries in 1966 and 1977. Use it to answer question (a) and (b).

<table>
<thead>
<tr>
<th>COUNTRY</th>
<th>PASSENGERS IN MILLIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1966</td>
</tr>
<tr>
<td>Canada</td>
<td>4,200</td>
</tr>
<tr>
<td>U.S.A</td>
<td>27,700</td>
</tr>
<tr>
<td>Argentina</td>
<td>14,100</td>
</tr>
<tr>
<td>India</td>
<td>96,800</td>
</tr>
<tr>
<td>Japan</td>
<td>258,400</td>
</tr>
</tbody>
</table>

a) i) Using a scale of 1cm to represent 20,000 millions passengers, draw comparative bar graphs based on the data above (9mks)
   ii) State two advantages of using bar graphs in presenting data
b) Calculate the percentage decline in railway passenger transport in Canada between 1966 and 1977. (2mks)
c) Explain why there are few railway links among African countries (6mks)
d) Explain three ways through which Kenya has benefited from her international airports. (6mks)

2 a) State four factors that led to the development of Kisumu town (4mks)
b) List five functions of New York city (5mks)
c) Explain five problems facing urban centers in Kenya (10mks)
d) Explain three ways in which a country benefits from urbanization (6mks)

3. a) Draw a sketch map of Ghana (1mk)
   On the sketch map,
   i) Shade the cocoa growing (1mk)
   ii) Mark and name Kumasi town (1mk)
b) i) Outline the stages involved in the processing of cocoa from harvesting to the time it is ready for export. (6mks)
   ii) List four problems experienced by cocoa farmers in Ghana (4mks)
c) Describe four physical conditions necessary for growing of oil palm. (8mks)
d) List four uses of oil palm.

4. a) Explain what is meant by overpopulation? (2mks)
b) How does Kenya’s population differ from that of Sweden? (4mks)
c) Explain four factors that influence population distribution in Kenya (4mks)
d) i) A part from rural – rural migration, list three other types of migrations in Kenya. (3mks)
   ii) Explain four causes of rural – rural migration in Kenya (8mks)
1. The diagram below shows the structure of the earth.

\[ \text{Diagram showing parts p, q, R, Sial, Sima, Hydrogen, Outer Core, Baryosphere, Inner Core} \]

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

\[ \text{Diagram showing jointed limestone rock} \]

Name the features marked X, Y and z  
   (3mks)

4. 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 form 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)

8a) 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)

9a) 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) Apart from using secondary sources, state four other ways in which the students would prepare themselves for the field study. (4mks)
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)

![Sketch Map]

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)

![Photograph]
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

7 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.

8 The map below shows the transport- Africa highway from Mombasa to Lagos.
Use it to answer question (a)

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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.

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
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 Maviririri 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 processes 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.
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 then 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

<table>
<thead>
<tr>
<th>Region</th>
<th>% of wheat produce</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asia</td>
<td>35</td>
</tr>
<tr>
<td>Europe</td>
<td>22</td>
</tr>
<tr>
<td>North America</td>
<td>19</td>
</tr>
<tr>
<td>USSR</td>
<td>16</td>
</tr>
<tr>
<td>Others</td>
<td>8</td>
</tr>
</tbody>
</table>

(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 (2 mks)
(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)
4. (a) The diagram below shows a barchan

(ii) Name the air current marked L
(b) How is an oasis formed?

5. The diagram below represents a coastal landform

(a) Name the features marked X and Y
(b) State three conditions necessary for the formation of a sand spit.

SECTION B
Answer questions 6 and two other questions from this section

6. Study the map provided. (Yimbo 1:50,000 sheet 115/1) and answer the following questions
(a) (i) What is the bearing of the air photo principal point in the grid square 3274 from the trigonometrical station in the grid square 2778?

(ii) Give the latitudinal extent of the area covered by the map
(b) Draw square 15 cm x 15 cm to represent the area bounded by the Easting 12 and 20 and the Northings 90 and 99

In the square you have drawn, mark and label
(i) Busia District
(ii) Lake Sare
(iii) All weather loose surface road

(c) Name two features shown on the map that indicate that the area receives low rainfall.

(d) Citing evidence from the map, state three economical activities carried out in the area covered by the map.

(e) Describe the relief of the area covered by the map.

(f) Suppose you are a student from Pala school (grid square 2793) and are planning to carry out a field study on the velocity of the part of river Yala shown on the map.
   (i) What preparations are likely to make for the study?

   (ii) State three problems you are likely to experience during the field study.

   (iii) State two follow-up activities you are likely to carry out after the field study.

7. The block diagram below shows the feature resulting from glaciating in a lowland region. Use it to answer questions (a)

(a) In your answer booklet, name the features marked R, S, and V

(b) Explain three conditions that may lead to glacial deposition in lowlands.

(c) Describe the process involved in the formation of
   (i) Moraine dammed lake
   (ii) Outwash plain
(d) Suppose you were to carry out field study of land use in glaciated lowland.
(i) Apart from conducting oral interviews, state four other methods you would use to collect information
(ii) State three advantages of using oral interview to collect information during a field study.
(iii) State three possible land uses you are likely to identify during the field study.

8. (a) describe how a river erodes its channels by the following process.
   (i) Hydraulic action
   (ii) Abrasion
   (b) (i) Explain three factors that lead to rejuvenation of a river
   (ii) Describe the process of a river capture.

The map below shows some drainage patterns of some river systems in Kenya. Use it to answer questions (c) (i)

(c) (i) Identify the drainage patterns labeled I, M and N
(ii) Describe the formation of a braided drainage pattern

9. The diagram below represents zones of natural vegetation on a mountain use it to answer questions (a)
(a) (i) In your answer booklet, name the zones marked X, Y and Z
(ii) Describe the characteristics of a tropical Savannah vegetation
(iii) State two reasons why the mountaintop has no vegetation

(b) Explain three factors that have led to a decline of the natural grassland in Kenya.

(c) Suppose you were to carry out a field study on the relationship between vegetation and altitude
(i) State three objectives you would formulate for your study
(ii) State three methods you would use to record the information collected during the field study
(iii) Name two types of maps you would draw to present your findings.

GEOGRAPHY PAPER 312/2 K.C.S.E 1999
SECTION A
Answer all the questions in this section

1. Give four reasons why wildlife conservation is encouraged in Kenya
2. State three problems facing commercial poultry farming in Kenya
3. (a) (i) Apart from providing power state three other benefits of the dams along river Tana
(ii) State two problems that affect hydroelectric power production along river Tana
(b) State two factors that hinder the expansion of geothermal power production in Kenya
4. (a) Give three advantages of railway over road transport
(b) The map below shows the extent of the oil pipeline in Kenya. Use it to answer question (b) (i)
(i) Name the towns marked X and Y which are served by pipeline
(ii) State two disadvantages of using pipelines as means of transporting oil

5. (a) Apart from desertification, name two other environmental hazards experienced in Kenya
(b) State two causes of desertification

SECTION B

Answer question 6 and any other questions from this section

6. The table below shows total number of livestock in Kenya in 1986

<table>
<thead>
<tr>
<th>Type of livestock</th>
<th>Number in millions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cattle (excluding dairy cattle)</td>
<td>7.0</td>
</tr>
<tr>
<td>Dairy cattle</td>
<td>2.0</td>
</tr>
<tr>
<td>Sheep</td>
<td>7.0</td>
</tr>
<tr>
<td>Goats</td>
<td>8.5</td>
</tr>
<tr>
<td>Pigs</td>
<td>0.1</td>
</tr>
<tr>
<td>Chicken</td>
<td>20.0</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>44.6</strong></td>
</tr>
</tbody>
</table>

*Source: Central Bureau of Statistics*

(a) Using a radius of 5cm, draw a pie chart to represent the information given in the table above
(b) Explain why the population of sheep is higher than that of dairy cattle
(c) Explain four ways in which the government of Kenya assist nomadic pastoralist to improve the quality of their livestock
(d) Explain three factors that favour beef farming in Argentina.

7. The pyramid below represents the population structure of country X. Use it to answer question (a)
(a) Describe the characteristic of the population represented by the pyramid (5mks)
(b) Explain three problems which may result from high population growth rate (6mks)
(c) Describe three measures that have taken in Kenya to reduce infant mortality (6mks)
(d) Explain four factors that have led to a high population density in the lake victoria basin (8mks)
8. The map below shows some major fishing grounds in the world. Use it to answer question (a)

(a) (i) Name the countries marked P and Q (2mks)

(ii) Explain four conditions that favour fishing in the shaded coastal waters (8mks)

(b) The diagrams below represent some fishing methods
(i) Name the methods R and S

(ii) Describe how each of the two methods is used in fishing

(c) Explain three measures used to conserve fish in Kenya
9. (a) The map below shows some major tea growing areas in Kenya.

(i) Name the areas marked W, X, and Y.

(ii) State four physical conditions that favour tea growing in Kenya.

(b) The table below shows tea production in Kenya for two years.

<table>
<thead>
<tr>
<th>Years</th>
<th>Tea produced (in tones)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1975</td>
<td>56,000</td>
</tr>
<tr>
<td>1985</td>
<td>137,000</td>
</tr>
</tbody>
</table>

(i) Calculate the percentage increase in tea production over the ten years period between 1975 and 1985.

(ii) Give two reasons why there was such an increase in tea production over the given period.

(c) Describe the stages through which tea is processed from picking to the time it's ready for marketing.

(d) Explain four problems experienced in small scale farming in Kenya.
1. (a) Name two elements of weather that can be recorded at a school weather station
   (b) Give three reasons why the recording of data at a school weather station may be inaccurate
2. (a) State two factors which influence the occurrence of surface run-off
   (b) The diagram below shows a waterfall. Name the feature marked X, Y and Z
3. (a) State two causes of submergence of coasts
   (b) Name two features that form as a result of submergence of coasts
4. (a) What is soil?
   (b) The diagram below shows a cross-section of a hillside and soil profiles that develop at different parts of the hillside
Match the soil profiles with the corresponding parts of the hillside where each profile is likely to develop.

5. The diagram below shows a glaciated upland area.

(a) Name the feature marked P, Q, and R

(b) How is a U-shaped valley formed?

SECTION B

Answer questions 6 and any other two questions from this section

6. Study the map of Mathioya 1: 50,000 provided and answer the following questions

(a) (i) What is the bearing of the cattle dip at grid reference 716386 from the coffee factory at grid reference 740377?
(ii) Give the approximate height of Kigoini dam
(iii) Measure the length of the district boundary in the Aberdare forest from Western margin of the map to the eastern edge of the forest (Give your answer in kilometers)

(b) Describe the drainage of the area covered by the map

(c) Draw a sketch section along northing 42 from grid reference 720420 to grid reference 760420.
On the section mark and name
(i) A road
(ii) A forest
(iii) A river

(d) Describe the distribution of settlements in the area covered by the map

(e) (i) Citing evidence from the map, give two reasons why the area covered by the map is suitable for coffee growing
(ii) Apart from agriculture, name two other economic activities carried out in the area covered by the map
7. (a) Differentiate between plutonic rocks and volcanic rocks

(b) Describe how lava plateau is formed

(c) (i) Name three volcanic features found in the rift valley of Kenya
     (ii) Explain four negative effects of vulcanicity in Kenya

(d) You intend to carry out a field study of a volcanic landscape
     (i) State four reasons why it is necessary to conduct a reconnaissance of the area of study.
     (ii) During your field work, you intend to study volcanic rocks, state why you would need the following items

8. (a) State three characteristics of the inter-tropical convergence zone
     (b) With the aid of a labeled diagram, describe how relief rainfall is formed
     (c) State five characteristics of the hot desert climate
     (d) You are required to carry out a field study to determine the relationship between climate and vegetation in your district
         (i) Give three reasons why you would need the map of the district
         (ii) Name two sampling techniques you are likely to use during the field study
              (iii) Give two reasons why sampling would be appropriate for this study
              (iv) State four methods you would use to record data during the field study

9. (a) (i) Describe how Lake Victoria was formed
         (ii) Explain how Lake Victoria has modified the climate of the surrounding

     (b) Explain why some lakes in the rift valley have fresh water

     (c) State five economic uses of lakes

     (d) Explain how each of the following have affected lakes in Kenya
         (i) Deforestation
         (ii) Industrialization
         (iii) Water weeds
1. State four characteristics of softwood forest in Canada.

2. (a) State two human activities that may be lead to soil erosion

(b) Give four reasons why it is necessary for Kenya to conserve her environment

3. (a) State three physical conditions that favour sugar cane growing in the lake Victoria basin in Kenya

(b) State three problems experienced in sugar cane farming in Kenya

4. (a) Which are the three functional zones of an ideal urban centre?

(b) What two benefits would there be if more commuters in urban centers in Kenya used public transport?

5. (a) Name two renewable sources of energy which are exploited in Kenya

(b) Give two reasons why the coal resources in Tanzania have not been exploited

SECTION B

Answer question 6 and any other two questions from this section

6. The table below shows items exported from countries A and B. Use it to answer questions (a), (b, and (c)

<table>
<thead>
<tr>
<th>Country A</th>
<th>Weights in Tonnes</th>
<th>Country B</th>
<th>Weight in Tonnes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exports</td>
<td></td>
<td>Exports</td>
<td></td>
</tr>
<tr>
<td>Maize</td>
<td>12,600</td>
<td>Lubricating oil</td>
<td>2,200</td>
</tr>
<tr>
<td>Coffee</td>
<td>9,990</td>
<td>Industrial chemical</td>
<td>2,100</td>
</tr>
<tr>
<td>Oil cakes</td>
<td>1,560</td>
<td>Fertilizer</td>
<td>5,300</td>
</tr>
<tr>
<td>Spices</td>
<td>750</td>
<td>Vehicles</td>
<td>3,300</td>
</tr>
<tr>
<td>----------</td>
<td></td>
<td>Wire products</td>
<td>2,200</td>
</tr>
<tr>
<td>----------</td>
<td></td>
<td>Paper</td>
<td>2,700</td>
</tr>
<tr>
<td>Total</td>
<td>24,900</td>
<td>Total</td>
<td>17,800</td>
</tr>
</tbody>
</table>

(a) (i) Name the main export item of each country

(ii) Calculate the percentage of the export item with the least tonnage in each country

(b) (i) draw a divide rectangle 15cm long to represent the export items for country A

Country A
Maize: Coffee: Oilcakes: Spices:

(ii) State three advantages of using divided rectangles to represent geographical data.

(c) How would countries A and B benefit from trading with each other?

(d) State five characteristics of bar graph

7. (a) Describe the stages in the reclamation of land from the sea in the Netherlands

(b) Explain four benefits of land reclamation in the Netherlands

(c) (i) Explain three conditions that favour irrigation farming in Kenya

(ii) State five problems experienced in irrigation farming in Kenya

8. (a) Give four reasons why Kenya should become an industrialized country

(b) Explain why some industries are located near sources of water

(c) (i) State five benefits of decentralizing industries in Kenya

(ii) Explain three problems hindering decentralization of industries in Kenya

(d) State four characteristics of the cottage industry in India

9. (a) (i) Apart from cotton, name two other fibre crops

(ii) State two climatic conditions that are ideal for cotton farming

(b) State three differences between cotton growing in Kenya and U.S.A

Kenya U.S.A

(c) Explain three ways in which the government of Kenya encourages cotton farming

(d) (i) apart from making textiles, state three other uses of cotton wool
(ii) Explain three problems faced by the textile industry in Kenya
1. (a) (i) Give the two dates in a year during which the number of hours of darkness is equal in both the north and south poles.

(ii) Why do the lengths of days and nights vary from one part of the earth to another?

(b) The diagram below shows the revolution of the earth around the sun. Use it to answer the questions that follow.

(i) If the earth takes 366 days to make a complete revolution during a leap year, how long will it take to move from position 1 to position 4?

(ii) What season is experienced in the southern hemisphere when the earth is in Position 1?

2. (a) State two conditions that are necessary for the formation of fog.

(b) The diagram below shows some types of clouds. Use it to answer the questions that follow.

(i) Name the clouds marked R

(ii) Give two weather conditions associated with cumulonimbus clouds
3. (a) What is mechanical weathering?
   (b) How is an exfoliation dome formed?

4. (a) State three climatic conditions experienced in the Sahara desert
   (b) State three ways in which plants adapt to hot desert conditions

5. (a) What are natural levees?
   (b) The diagrams below shows a section of a river. Use it to answer the questions that Follow.

(i) At what stage development is this section of the river?
(ii) Name the natural process that takes place at the part marked S
(iii) Name the feature marked T.

SECTION B
Answer questions 6 and any other two questions in this section

6. (a) Study the map of Kijabe 1: 50,000 provided and answer the following questions:
   (i) What is the appropriate height of the top of Kijabe hill?
   (ii) Measure the length of Nairobi – Naivasha railway line from landhies (grid reference 257978) to the level crossing near Kijabe station (grid reference 308984). Give your answer in kilometers.
   (iii) What relief feature on the map may have created problems in the construction of the railway line?
   (b) Describe the drainage of the area covered by the map
   (c) Explain how relief has influenced the distribution of settlement in the area covered by the map.
   (d) Citing evidence from the map, state four economic activities carried out in the area covered by the map.
   (e) Suppose you were a student in the school at Kinari (Kinale) and you plan to carry out a field study of Wakagwe forest,
      (i) Design a working programme (schedule) you would use during the day of the study
      (ii) Give three reasons why it would be necessary to sample part of the forest for the study
(iii) State two ways in which your findings would be useful to the local community.

7. (a)
   (i) What is a rock?
   (ii) Describe three ways through which sedimentary rocks are formed
        - Mechanically formed
        - Organically formed
        - Chemically formed
(b) Describe two process through which sedimentary rocks changer into metamorphic rocks
(c) Give an example of each of the following types of igneous rocks
   (i) Plutonic rocks
   (ii) Hypabyssal rocks
   (iii) Volcanic rocks

(e) Suppose you were to carry out a field study of rocks within the vicinity of your school
   (i) Name three secondary sources of information you would use to prepare for the field study
   (ii) State four activities you would carry during the field study
   (iii) State three problems you are likely to experience during the field study

8. (a) Name two types of submerge coasts
(b) Explain how the following factors determine the effectiveness of wave erosion along a coast
    (i) Nature of the material transported by waves
    (ii) Nature of the coastal rocks
(c) With the aid of labeled diagrams, describe the process through which a stack is formed
(d) (i) State four conditions that favour the growth of coral
    (ii) Explain three ways in which coral contributes to the economic development of Kenya.

9. (a) Name three components of soil
(b) Explain how the following factors influence the formation of soil
    (i) Climate
    (ii) Topography
(c) (i) State two economic uses of soil
    (ii) Explain four ways in which human activities contribute to soil erosion
(d) Describe how the following types of erosion occur
    (i) Sheet erosion
    (ii) Gully erosion
GEOGRAPHY PAPER 312/2 K.C.S.E 2001
QUESTIONS
SECTION A
Answer all the questions in this section

1. The bar graphs show the value of trade between Kenya and other countries for the year 1995, 1996 and 1997. Use it to answer question (a)

VALUE OF TRADE BETWEEN KENYA AND OTHER COUNTRIES

SCALE 1cm rep 1 billion K

SOURCE OF DATA: STATISTICAL ABSTRACT (K) 1998

(a) (i) Name the type of bar shown above
     (ii) Calculate the cumulative differences in value between Kenya and other countries

(b) Give two reasons why there is an imbalance of trade between Kenya and other countries

2. (a) Name two cash crops grown in plantations in the highlands east of the valley
     (b) Give three physical conditions that are necessary for the growth of cloves

3. (a) State three physical problems experienced by farms at Mwea-Tembere irrigation
     (b) Outline methods that were used to rehabilitate land in the Tennessee valley in the United States of America (USA)

4. (a) Name two districts in the rift valley province of Kenya where Merino sheep are reared
     (b) Compare sheep farming between Kenya and Australia

5. Give three effects of liberalization of the oil industry in Kenya.
SECTION B

Answer question 6 and any other questions from this section

6. Study the photograph below and use it to answer questions (a)

(a) (i) Name the type of photograph shown
(ii) Draw a rectangle measuring 15cm to 10cm to represent the area of photograph
(iii) On the rectangle draw a sketch of the photograph and label three physical features
(iv) Explain two physical conditions that would discourage setting up of a game park in the area shown on the photograph

(b) Apart from national parks, outline four other ways in which wildlife in conserved in Kenya

(c) Give four reasons why domestic tourism is being encouraged in Kenya

(d) Explain four factors which Switzerland receive more tourists than Kenya

7. Use the map of East Africa below to answer questions

(a) Name the towns marked P, Q and R

(b) (i) Explain three physical factors that influence the location of Mombasa
(ii) Explain four problems that Mombasa experiences as it grows
(c) Compare the ports of Mombasa and Rotterdam under the following subheadings
   (i) Transport links to the interior
   (ii) Mechanization of the ports
   (iii) Size of the ports
   (iv) Climate experienced at the ports

8. Below a sketch of the map of the great lakes- St. Lawrence Seaway. Use it to answer question (a)

![Map of the Great Lakes](image)

(a) Name
   (i) The lake marked L
   (ii) The waterfall marked M
   (iii) The port marked N

(b) Explain three ways in which the great lakes St. Lawrence sea way has contributed to the economy of Canada and the United States of America (U.S.A)

(c) Explain four factors that hinder the development of railway links among African countries

(d) (i) State two recent development that have taken place in Kenya to improve Communication of information
   (ii) Explain three problems facing telephone as a means of communication in Kenya

9. (a) (i) Apart from water and air pollution, name two other types of pollution
   (ii) Identify three ways through which water is polluted
   (iii) Explain three effects of air pollution on the environment

(b) (i) Explain three factors that lead to frequent flooding in the lake region of Kenya
   (ii) Explain two ways through which floods are controlled in the lake region of Kenya

(c) State four effects of wind as an environmental hazard in Kenya
1. The diagram below represents features produced by faulting. Use it to answer questions that follow.

\[\text{Diagram of faulting features}\]

a) Name the features marked P, Q, and R
b) Differentiate between a normal faulty and a reverse fault.

2. Use the diagram below to answer question (a)

\[\text{Diagram of delta features}\]

a) i) What type of a delta is represented by the diagram?
ii) Name the features marked E, F, and G.

b) State two conditions necessary for the formation of a delta.

3. a) What is desertification?

b) State two negative effects of desertification.

4. a) The table below shows climatic data of a station in Kenya. Use it to answer question (a)

<table>
<thead>
<tr>
<th>Month</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp in °C</td>
<td>28.9</td>
<td>29.7</td>
<td>30.3</td>
<td>29.9</td>
<td>29.7</td>
<td>29.2</td>
<td>28.4</td>
<td>28.7</td>
<td>29.6</td>
<td>30.1</td>
<td>29.2</td>
<td>28.7</td>
</tr>
<tr>
<td>Rainfall in mm</td>
<td>9.0</td>
<td>8.0</td>
<td>21.0</td>
<td>49.0</td>
<td>25.0</td>
<td>9.0</td>
<td>20.0</td>
<td>10.0</td>
<td>4.0</td>
<td>10.0</td>
<td>17.0</td>
<td>11.0</td>
</tr>
</tbody>
</table>

i) What is the annual range of temperature at the station?
ii) Calculate the total rainfall for the station.

b) State three factors that influence climate.
5. a) What is the solar system?
b) Use the diagram below to answer the questions that follow.

![Diagram of a solar system showing parts L and M]

i) What type of eclipse is represented by the diagram?
ii) Name the features marked L and M

**SECTION B**

6. Study the map of Kisumu East (1:50000) provided and answer the following questions.

i) What is the bearing of the trigonometrical station at Grid reference 081980 from the rock out crop at grid reference 071992.

ii) Measure the length of the all-weather road (bound surface) b2 /1 from the junction at grid reference 947911 to the edge of the Map, grid reference 947667. (Give your answer in kilometers)

iii) On a rectangle, mark and name:

b) i) Describe the relief of the area covered by the map.

ii) Explain how relief has experienced settlement in the area covered by the map.

Citing evidence from the map, give three economic activities carried out in the area covered by the map other than crop growing.

**Economic Activities**

<table>
<thead>
<tr>
<th>Evidence</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarrying</td>
</tr>
<tr>
<td>Processing</td>
</tr>
<tr>
<td>Transportation</td>
</tr>
</tbody>
</table>

**Economic Activities**

<table>
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<tr>
<td>Processing</td>
</tr>
<tr>
<td>Transportation</td>
</tr>
</tbody>
</table>

Students from the school at Mosongo (Grid square 0681) carried out a field study of the course of the river Ombeyi.

i) State three findings they are likely to have come up with.

ii) Give three advantages of studying rivers through fieldwork.
7. The map below shows the physical regions of Kenya. Use it to answer the questions that follow.

[Map of Kenya]

a) i) Name the regions marked.
ii) Give the major economic importance of each of the lakes marked S and T.
iii) Describe how Mt. Kenya was formed.
iv) State three ways through which Mt. Kenya has influenced the drainage of the area.

b) Suppose students are to carry out a field study of the soils found in the Nyika plateau.
   i) State three methods they are likely to use to collect data.
   ii) The students identify the soils for further analysis. Give three characteristics of the desert soils that they are likely to study.

8. The map below shows some vegetation regions of the world. Use it to answer questions (a) to (c).

[Map of vegetation regions]
a) Name the temperate grasslands marked H, J and K.
b) Describe the characteristics of the natural vegetation found in the shaded area marked N.
c) i) Explain four ways in which the vegetation found in the area marked M adapts to the environment conditions of the region.
d) You are required to carry out a field study of the vegetation within the local environment:
   i) a part from identifying the different types of plants, state three other activities you will carry out during the field study.
   ii) How will you identify the different types of plants?

9. The diagram below represents the internal structure of the earth. Use it to answer question(a)

(a) Name the part marked U and V.
(b) Describe the deposition of:
   i. The crust
   ii. The core
(c) (i) What are earthquakes
   (ii) Name two types of earthquakes.
   (iii) State the five ways in which the earths’ crust is affected by earthquakes.
(d) You intend to carry out a field study of an area recently affected by intense earthquake.
   i. Give two sources of information that you would use in preparation for the study.
   ii. Explain two factors that would make it difficult for you to collect accurate data during the field study.
1. State four reasons why the northern parts of Kenya are sparsely populated.

2. a) Give three problems experienced in the implementation of the National Food Policy.

3. a) State three measures that have been taken to conserve fisheries in Kenya.
    b) Give four reasons why Norway is a great fishing nation.

4. Use the sketch map of lake Victoria below to answer question (a)

![Sketch map of lake Victoria](image)

a) Name the lake ports marked P, Q and R.

b) Outline two advantages of using containers while handling goods at the port of Kisumu.

5. a) In what ways do pig farmers benefit from rearing pigs.
    b) State two problems experienced by pig farmers in Kenya.

6. i) Ground / close up photograph
    ii) Accept any of the following
    iii) Describe the appearance of the forest shown on the photograph.

b) i) What is Agro – Forestry?
    ii) Give five reasons why afforestation is being encouraged in Kenya.
c) Compare forestry in Canada and Kenya under the following sub-headings.
   i) Tree harvesting
   ii) Transportation of logs.

d) Explain two problems that affect forestry in Canada.

7. a) Draw an outline map of Nigeria
   - On the map shade the main oil palm growing area.
   - Mark and name Lagos

b) State five physical conditions necessary for the growing of palm oil.

c) i) Describe the commercial production of palm oil in Nigeria.
   ii) A part from making oil, give four other uses of palm oil
   iii) Name three crops grown in Kenya that are processed to produce vegetable oil.

8 a) (i) Name two non-renewable sources of energy.
    (ii) Explain four physical factors that influence the location of a hydroelectric power station.

b) A part from generating H.E.), give three other benefits that have resulted from the construction of Masing Dam.

c) Explain three benefits that would result from rural electrification in Kenya.

d) In what three ways did the power shortages resulting from the drought of the years 1999 and 2000 affect the industrial sector in Kenya.

9. Use the map of Africa to answer question (a) (i)

   i) Name the minerals mined in the areas marked S, T and V.
   ii) State two formation in which mineral ores occur.

b) Explain four problems, which Zambia experiences in the exportation of copper.

c) Explain three ways in which coal contributes to the economy of Zimbabwe.

d) Describe three negative effects of open cast mining on the environment.
1. a) State TWO factors that influence the rate of erosion by the river in its upper course.
   b) (i) Define river rejuvenation
       Name two features that result from river rejuvenation
2. a) State three conditions necessary for the development of a Karst scenery
    b) Give two reasons why there are few settlements in Karst landscapes
3 a) State two conditions which may influence the occurrence of landslides
    b) Using the diagram (in question paper), name

   ![Diagram]

   (i) The type of mass movement shown
   (ii) The features marked P and Q
4. a) i) In your answer booklet draw a diagram to show a simple fold and on it mark and name
    b) Name two fold mountains in Africa
5. a) Name the type of rocks which results from the metamorphism of:
    (i) Granite
    (ii) Clay
    b) Give two reasons why sedimentary rocks are widespread in the coastal plain of Kenya.
6. Study the map of Menu (1: 50,000, sheet 108/3) provided and answer the following questions
   a) i) What is the height of Njorivola hill at grid square 4117
        ii) Give two methods used in representing religion the map contract
        iii) Measure the bearing of the peak of Kanjai hill form the peak of Kieru hill to the north east of the map extract.
   b) Citing evidence from the map, explain:
      (i) Two factors trading in the area covered by the map
c) The rectangle (in the question paper) represents the area in the map extract bounded by Easting 35 and 40 and Northing 02 and Northing 10. Use it to answer the questions that follow.

Identify the name the features marked;
- J-
- K-
- L-

(i) Measure the length of the road they followed from the junction at grid reference 442128 to the junction at Gitoro, grid reference 478069. Give your answer in kilometers
(ii) Apart from the forest, name two other types of natural vegetation they observed along the route
(iii) State two methods they may have used to collect data while at the sawmill
(iv) State three follow-up activities they may have been involved in after the field study.

7 a) (i) What is a glacier?
(ii) Distinguish between valley glaciers and ice sheets

b) The diagram (in the question paper) represents an upland glaciated landscape. Use it to answer question b (i) and (ii)

(ii) Name the features Marked D, E and F
(ii) Describe how pyramidal peak is formed

(c) Explain the significance of upland glaciated features to human activities

(d) Students from a school near Mt. Kenya were planning to carry out a field study of the glaciated features on the top of the mountain.
(i) Give four reasons why it would be difficult for the students to undertake the field study on the glaciated features on the mountain
(ii) Kenya to describe how the students would use a photograph of Mt. identify the glaciated features of the mountain.
8  a)  the tables below represent rainfall and temperature of stations X and Y. Use them to answer questions (a) and (b)

<table>
<thead>
<tr>
<th>MONTHS</th>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
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<tbody>
<tr>
<td>TEMPERATURE IN °C</td>
<td>30</td>
<td>31</td>
<td>31</td>
<td>31</td>
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<td>RAINFALL IN MM</td>
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<td>25</td>
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<table>
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<th>MONTHS</th>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>O</th>
</tr>
</thead>
<tbody>
<tr>
<td>TEMPERATURE IN °C</td>
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<td>17</td>
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<td>20</td>
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<tr>
<td>RAINFALL IN MM</td>
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<td>50</td>
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<td>87</td>
<td>87</td>
<td>50</td>
<td>35</td>
<td>20</td>
<td>15</td>
</tr>
</tbody>
</table>

a) (i)  for each of the two stations calculate the mean annual temperature.
   X  -
   Y  -
   (ii) Calculate the annual rainfall for station Y
   (iii) On the graph paper provided, draw a bar graph to represent rainfall for station x. Use vertical scale of 1cm to represent 50mm

b)  Describe the climatic characteristics of station Y.

c)  (i)  Describe how conventional rainfall in the lake region of Kenya

9  a)  (i)  Two process through which wind erodes the surface
   (ii) Three ways through which wind transports its load

b)  (i)  How an oasis is forced
   (ii) How zeugens are formed
   You are supposed to carry out a field study of a semi-arid area in Kenya.

b)  (i)  Two ways of preparing for the Field study
   (ii) Information that would be collected through observation of the arid area
   (iii) Measures to be recommended for controlling desertification.
1. a) What is urbanization?
   b) Give two differences in the function of New York and Nairobi cities.
      New York  Nairobii
2. a) A part from draining swamps, state two other methods used in reclaiming land in Kenya.
   b) State three benefits that resulted from reclamation of the Yata swamp
3. a) Give three physical factors that favour coffee growing in Kenya highlands.
    b) State two problems facing coffee farming in Kenya
4. a) Why is it necessary to conserve water?
    b) How does terracing help in water conservation?
5. a) State three reasons why National parks have been established in Kenya.
    b) A part from marine parks, give two other tourist attractions found at the coast of Kenya.
6. The table below shows the value of Kenyans imports and exports in 1999. Use it to answer questions(a)

<table>
<thead>
<tr>
<th>IMPORTS</th>
<th>VALUE IN K$ '000'</th>
<th>EXPORTS</th>
<th>VALUE IN K$ '000'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food &amp; Beverages</td>
<td>760,000</td>
<td>Food, beverage and tobacco</td>
<td>3,270,000</td>
</tr>
<tr>
<td>Industrial supplies(Non food)</td>
<td>3,400,000</td>
<td>Basic materials, minerals, fuels, and lubricants</td>
<td>1,100,000</td>
</tr>
<tr>
<td>Fuel and Lubricants</td>
<td>2,000,000</td>
<td>Manufactured goods</td>
<td>1,400,000</td>
</tr>
<tr>
<td>Machinery and other capital requirement</td>
<td>1,700,000</td>
<td>Miscellaneous</td>
<td>30,000</td>
</tr>
<tr>
<td>Transport equipment</td>
<td>1,500,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>960,000</td>
<td>Total</td>
<td>5,800,000</td>
</tr>
<tr>
<td>Total</td>
<td>10,320,000</td>
<td>Total</td>
<td>5,800,000</td>
</tr>
</tbody>
</table>

a) Use a radius of 5cm, draw a pie chart to represent data on exports shown on the table above. Show your calculations.
b) Explain four measures, which Kenya may take to reduce the unfavourable balance of trade.

c) Explain four benefits that Kenya derives from international trade.

7. a) i) Give two primary sources of population on data.
   ii) What information can be derived from a population pyramid?

b) Describe three ways in which the population of Kenya differs from that of Sweden.

c) Explain four reasons of rural migration in Kenya.

d) Explain three problems, which result from the high population growth rate in the East African countries.

8. a) Name three agricultural non food manufacturing industries in Kenya.

b) i) Draw outline map of Kenya (map should have a frame / outline correct).
   ii) On the outline map, mark and name two towns where motor vehicles are assembled.

c) i) Explain three causes of the decline in the textile industry in Kenya.
   ii) Describe the measures that should be taken to control the following effects of industrialization.

Water pollution
Rural urban migration.

d) Explain four factors, which have favoured the development of the electronics industry in Japan.

9. Use the map of North America (in question paper) to answer question (a)

   a) i) Name two methods of fishing used in the shaded areas,
   ii) Name two types of fish caught along the west coast of Canada
   iii) Explain how the following factors favour fishing in the shaded areas. Indented coastline.

b) Explain four ways in which marine fisheries in Kenya can be conserved.

c) i) Give three methods used to preserve fish
ii) Explain three problems experienced by fishermen while fishing in Lake Victoria.
SECTION A

Answer all the questions in this section

1. a) Name two types of soil according to texture (2mks)
   b) State two ways in which humus improves the quality of soil (2mks)

2. a) What is latitude?
   b) What is the time at Hola on 40° E when the time at Tema on 0° longitude is 12.00 noon? (2mks)

3. The diagram below show some features of a Karst scenery. Use it to answer questions (a)

   a) Name the features marked P, Q, and R. (5mks)
   b) Describe carbonation as a process of Chemical weathering (3mks)

4. a) What do you understand by:
   (i) Microclimate?
   (ii) Green house effect?
   b) Name three instruments to match three elements of weather that can be measured at a school weather station (3mks)

5. a) What is a lake?
   b) State three ways through which lakes are formed? (3mks)

SECTION B

Answer question questions 6 and any other two questions from this section

6. Study the map of Kipkabus (1:50,000, sheet 104/4 provided and answer the following questions.
   a) (i) give the latitude and longitude of the South west corner of the map extract. (2mks)
   (ii) What is the area of Tingwa Hill Forest? (2mks)
   b) (i) name the planted vegetation in the area covered by the map (1mk)
   (ii) Explain how relief and human activities have influenced the distribution of natural vegetation in the area covered by the map (4mks)
   c) i) Using a vertical scale of 1 cm to represent 100 meters draw a cross section Along the line marked X-Y (5mks)
ii) On the cross section mark and label the following:
   - A steep slope
   - A hill
   - A col
   - A river valley
   (4Mks)

iii) Calculate the vertical exaggeration of the cross section (2mks)

d) Student of Chepketert school carried out a field study of Kipkabus town.
i) Name two types of roads they used to travel to Kipkabus
   (2mks)

ii) State three functions of Kipkabus that they identified
   (3mks)

7. a) i) A part from the Rift Valley name two other relief features that were formed as result of faulting.
   (2mks)

ii) With the aid of a well labeled diagram, describe how a Rift Valley is formed by tensional forces.
   (8mks)

b) Explain four effects of faulting
   (8mks)

c) Students are planning to carry out a field study of an area affected by faulting
   i) State four reasons why it is important for the students to have a pre-visit of the area
   (4mks)

ii) One of the ways they would use to collect data is through direct observation. Give three disadvantages of direct observation in the study of such an area.
   (3mks)

8. a) State four factors that determine the amount of surface run off
   (4mks)

b) Describe three ways in which a river transports its load
   (6mks)

c) Using a diagrams, describe the following drainage patterns
   i) Dendritic
   (2mks)

   ii) Trellis
   (2mks)

   iii) Centripetal
   (2mks)

d) A form four class is planning to carry out a field study of a waterfall.
i) State five ways in which they would prepare for the study
   (5mks)

ii) Give four methods they would use to collect information at the waterfall
   (4mks)
9. The diagram below shows some intrusive features formed by vulcanicity. Use it to answer question (a)

[Diagram showing intrusive features]

a) i) Name features marked X, Y, and Z  
     (3mks)

ii) Explain how a sill is formed  
     (4mks)

b) Describe the characteristics of a composite volcano  
    (4mks)

c) Explain four ways in which volcanic mountains positively influence human activities.  
    (8mks)

d) Students carried a field study on volcanic rocks
   i) Give four reasons why it is necessary to collect rock samples during such a field study.  
      (4mks)

   ii) State two problems they are likely to have experienced during the field study  
       (4mks)
KCSE 2004 GEOGRAPHY PAPER 2

SECTION A

Answer all the questions in this section

1. a) List two factors that determine the distribution of forests in Kenya. (2mks)
   b) Give three economic uses of mangrove forests. (2mks)

2. The diagram below show the occurrence of petroleum in the earth’s crust. Use it to answer questions (a)

   a) Name the substances in the areas labeled L, M and N. (3mks)
   b) Give two by-products obtained when crude oil is refined. (2mks)

3. a) A part from historical sites name two tourist attractions along the coastal strip of Kenya. (2mks)
   b) Give three reasons why it is necessary to preserve historical sites. (3mks)

4. a) Differentiate between manufacturing and tertiary industries. (2mks)
   b) State three factors that led to the growth of iron and steel industry in the Ruhr region of Germany. (3mks)

5. a) State three environmental conditions which favour commercial beef farming in Kenya. (3mks)
   b) Name two exotic breeds of cattle reared in commercial ranches in Kenya. (2mks)

SECTION B

Answer questions 6 and any other two other two questions from this section.

6. The table below shows four principal crops produced in Kenya in the years 2000-2001. Use it to answer question(a) and (b).

<table>
<thead>
<tr>
<th>CROP</th>
<th>AMOUNT IN METRIC TONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2000</td>
</tr>
<tr>
<td>Wheat</td>
<td>70,000</td>
</tr>
<tr>
<td>Maize</td>
<td>200,000</td>
</tr>
<tr>
<td>Coffee</td>
<td>98,000</td>
</tr>
<tr>
<td>Tea</td>
<td>240,000</td>
</tr>
<tr>
<td></td>
<td>2001</td>
</tr>
<tr>
<td>Wheat</td>
<td>130,000</td>
</tr>
<tr>
<td>Maize</td>
<td>370,000</td>
</tr>
<tr>
<td>Coffee</td>
<td>55,000</td>
</tr>
<tr>
<td>Tea</td>
<td>295,000</td>
</tr>
</tbody>
</table>

Source: Central Bureau of Statistics

   a) (i) Using a scale of 1 cm to represent 50,000 metric tons, draw a
simple comparative bar graph based on the data above.  

(ii) State two advantages of using comparative bar graphs  

b) Calculate the percentage increase in wheat production between the years 2000 and 2001.  

c) State five physical conditions required for the growing of tea in Kenya  

d) Explain four problems experienced in small scale tea farming in Kenya  

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

a) (i) Name the railway terminuses marked P, Q, R  

(ii) In each case give the main commodity transported by the railway lines marked s and T.  

b) (i) State four reasons why road network is more widespread than railways in East Africa.  

(ii) One of the problems facing road transport is the high frequency of accidents. Explain four conditions of roads in Kenya that may lead to accidents.  

c) i) Name three physical regions through which River Tana passes  

ii) Explain the effects of land pollution can be controlled  

d) State four ways through which land pollution can be controlled  

9. a) i) Name two types of rural settlement patterns.  

ii) A part from urban-rural migration. Name two other types of migration.  

b) A part from pollution, explain four problems experienced in urban centers.  

c) i) Name two non-food agricultural industries in Thika  

ii) Explain four factors that have led to the growth of Thika as an industrial town.
GEOGRAPHY PAPER 1 2005

Answer all the questions in this section

SECTION A

1. (a) Name two theories of the origin of the earth (2 mks)
(b) Name four layers of the earth’s atmosphere (4 mks)

2. (a) The diagram below shows the hydrological cycle. Name the stages marked E, F, and G (3 mks)
(b) Differentiate between watershed and a catchments area (2 mks)

3. (a) State two characteristics of sedimentary rocks (2 mks)
(b) Give two examples of chemically formed sedimentary rocks (2 mks)

4. (a) Name a place in Kenya where tarns are found (1 mk)
(b) Describe how a tarn is formed (4 mks)

5. (a) What is a natural vegetation? (2 mks)
(b) State three characteristics of Mediterranean vegetation (3 mks)

SECTION B

Answer questions 6 and any other two questions in this section

6. Study the map of SILALONI (1:50,000) provided and answer the following questions
(a) (i) Convert the ratio scale of the map extract into a statement scale (1 mk)
(ii) Give the six–figure grid reference of the point where the power line crosses the Samburu – Silaloni dry weather road (1 mk)
(iii) Give three types of natural vegetation shown in the area covered by the map (2 mks)
(b) 
(i) Identify two sources of water in the area covered by the map (2mks)
(ii) Using evidence from the map, suggest four functions of Tsangatsini township. (4mks)

(c) 
Using a vertical scale of 1 cm to represent 20m:
(i) draw a cross section from grid reference 400915 to 500915 (3 mks)
(ii) On the cross section, mark and name the following:
   - A river
   - A road
   - A quarry
(iii) Calculate the vertical exaggeration of the section you have drawn (2 mks)

(d) Students at Silaloni school (grid square 3199) carried out a field study on the soils around the school
(i) Give four reasons why a reconnaissance was necessary for the field study (4mks)
(ii) Name two types of soils they collected (2mks)

7. Use the diagram below to answer question (a)

![Diagram of coastal features](image)

(a) Name the coastal features marked H, J, K, L and M (5mks)
(b) (i) state four conditions necessary for the formation of a beach (4mks)
(ii) Describe three processes involved in marine erosion (6mks)

(b) You are planning to carry out a field study on the depositional features along the coast of Kenya
(i) State five objectives you would formulate for your study (5mks)
(ii) Give five methods you would use to record the information collected (5mks)

8. (a) Name one fold mountain in:
(i) Asia (1mk)
(ii) North America (1mk)
(iii) South Africa (1 mk)
(b)  
(i) Apart from fold mountains, name three other features resulting from folding  
(ii) With the aid of a labeled diagram, describe the formation of an thrust fold

(c) Explain four effects of fold mountains on human activities  

(d) Students are planning to carry out a field study on landforms in their strict.
(i) State three ways in which the students would prepare themselves for the filed study  
(ii) Give two advantages of studying landforms through field work

9. Use the map below to answer questions (a) and (b)

(a) Name:
(i) The type of climate found in the shaded area marked Q  
(ii) The ocean current marked R and S

(b) Describe the characteristics of the type of climate found in the shaded area marked T

(c) Explain how the following factors influence climate
(i) Altitude  
(ii) Distance from the sea

(c) (i) Describe a suitable site where you would locate a weather station in your School  
(ii) Give reasons why a Stevenson’s screen is:
   - Painted White  
   - Has louvers
GEOGRAPHY PAPER 2 2005

Answer all questions in section A. In section B answers question 6 and any other two questions

SECTION A

1. (a) Name the two types of human settlements
   Use the sketch map below to answer questions (b)
   
2. (a) State three characteristics of Jua Kali industries in Kenya
   (b) Give three problems facing the Jua Kali Industries in Kenya

3. The Sketch map below shows Hydro-Electric Power (H.E.P) stations along the River Tana. Use it to answer questions (a) (i) and (ii)
Name
(i) The HJ.E.P station marked S and T (2 mks)
(ii) The proposed H.E.P station marked U (1 mk)
(b) Apart from water. Give two renewable sources of industries energy (2 mks)

4. State four ways in which drought affects the agricultural sector in Kenya (4 mks)

5. (a) Give three conditions that are necessary for bee keeping (4 mks)
(b) State three reasons why the government of Kenya is encouraging bee keeping in the country (3 mks)

SECTION B
Answer question 6 and any other two questions in this section

6. The table below shows the approximation of four districts in central province in 1999. Use it to answer question (a)

<table>
<thead>
<tr>
<th>DISTRICT</th>
<th>POPULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Murang’a</td>
<td>350,000</td>
</tr>
<tr>
<td>Maragua</td>
<td>390,000</td>
</tr>
<tr>
<td>Nyandarua</td>
<td>470,000</td>
</tr>
<tr>
<td>Thika</td>
<td>650,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,860,000</strong></td>
</tr>
</tbody>
</table>

(a) (i) Suggest two possible reasons why the population of Thika is higher than that of Murang’a (2 mks)
(ii) Using a radius of 5 cm, draw a pie chart to represent the data above (9 mks)
(iii) Apart from pie charts, name two other statistical methods that can be used to represent the data in the table. (2 mks)

b) i) Give three advantages of using a pie chart to represent data (3 mks)
ii) State three reasons why it is necessary for a country to carry out a population census. (3 mks)

c) Explain how the following factors have led to the population increase in Kenya.
   i) Early marriages (2 mks)
   ii) Improved medical facilities (2 mks)
   iii) Cultural beliefs (2 mks)

7. Use the map of East Africa below to answer question (a) (i)
a) i) Identity the mineral mined in the areas marked W,Z,X and Z (4mks)
Name:
   i) Three methods of mining (3mks)
   ii) Two sea ports thought which some of the minerals mined is East Africa are exported. (2mks)
b) State five factors that influence the exploitation of minerals (5mks)
c) Explain four ways in which soda ash contributes to the economy of Kenya (8mks)
d) State three ways in which mining derelicts can be reclaimed (3mks)

8a) i) Name two provinces in Kenya where wheat is grown on large scale (2mks)
   ii) Explain four physical conditions that favour wheat growing in Kenya (8mks)

b) Compare wheat farming in Canada and Kenya under the following
   i) Storage (2mks)
   ii) Transportation (2mks)
   iii) Marking (2mks)

c) i) Explain three climate problems that affect wheat farming in Canada (6mks)
   ii) Give three uses of wheat (2mks)

9. a) i) Define international trade (2mks)
   ii) Name three major imports from Europe to Kenya (3mks)
b) State four factors that influence external trade in Kenya (4mks)
c) Explain four ways through which Kenya will benefit the renewed East Africa Cooperation (8mks)
d) Explain four negative effects of international trade (8mks)
1. (a) How does a sea breeze occur? (2 mks)

(b) Use the map of Africa below to answer questions (b) (i)

(i) Name the ocean currents marked H, J, and K (3 mks)
(ii) State two effects of a warm ocean current on the adjacent coastlands (2 mks)

2. Give two processes involved in each of the following types of weathering
   (a) Physical weathering (2 mks)
   (b) Chemical weathering (2 mks)

3. The diagram below shows the composition of the solar system

   (a) Name the planets marked F and G (2 mks)
   (b) State three effects of the rotation of the earth on its axis (3 mks)

4. (a) Name two scales used to measure the intensity of an earthquake (2 mks)
   (b) Give three causes of earthquakes (3 mks)
5. The table below represents rainfall and temperature figures for a town in Africa. Use it to answer the questions that follow.

<table>
<thead>
<tr>
<th>Month</th>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp</td>
<td>27</td>
<td>28</td>
<td>28</td>
<td>28</td>
<td>27</td>
<td>25</td>
<td>25</td>
<td>24</td>
<td>25</td>
<td>26</td>
<td>27</td>
<td>26</td>
</tr>
<tr>
<td>(°C)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rainfall</td>
<td>25</td>
<td>38</td>
<td>99</td>
<td>140</td>
<td>277</td>
<td>439</td>
<td>277</td>
<td>69</td>
<td>142</td>
<td>201</td>
<td>71</td>
<td>25</td>
</tr>
<tr>
<td>(mm)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(a) (i) Calculate the annual range of temperature for the town (1 mk)

SECTION B

Answer question 6 and any other two questions from this section

6. Study the map of Nyahururu, 1: 50,000 (sheet 105/4) provided and answer the following questions:
   (a) (i) Give the six figure grid of the junction where the road to Ndaragwa (D 388) meets with the road to Nyeri & Nanyuki (B5) (2 mks)
   (ii) Calculate the bearing of point X from point Y (2 mks)
   (iii) Name three physical features found along the line XY (3 mks)

(b) (i) Draw a square 12 cm by 12 cm to represent the area enclosed by the Easting 10 and northing 10 to the North-eastern part of the map (1 mk)
   (ii) On the square, mark and label
         • The main river (1 mk)
         • All weather loose surface road (1 mk)
         • A forest (1 mk)

(b) Citing evidence from the map, explain two
   (i) Physical factors that may have influenced the location of Nyahururu town (4 mks)
   (ii) Factors that favour saw milling in the area covered by the map (4 mks)

4. The diagram below shows river Mandera. Use it to answer question (a)
(a) (i) Name the process that takes place at each of the points marked P and Q. (2mks)
(ii) Name the feature formed at the point marked R (1mk)
(iii) Describe how an Ox-bow lake is formed (5 mks)

(b) State five characteristics of a flood plain (5 mks)

(c) Explain three causes of river rejuvenation (6 mks)

Your class is required to carry out a field study of a river

(i) What would be the advantages of dividing the class into groups according to the stages of the long profile of a river? (4mks)
(ii) What would be the disadvantage of using secondary data in this kind of a field study? (2mks)

8. (a) (i) What is an ice sheet? (2mks)
(ii) Give two reasons why there are no ice sheets in Kenya (2mks)
(iii) Explain three factors that influence the movement of the ice from the place where it has accumulated (6mks)

(b) Describe how an arête is formed (4mks)

(b) The diagram below shows types of moraines in a valley glacier

(i) Name the type of moraines marked S, T and V (3mks)
(ii) Explain four positive effects of glaciation in lowland areas. (8mks)

9. The diagram below represents zones of natural vegetation on a mountain in Africa. Use it to answer question (a) (i) and (ii)
a)  (i) Name the vegetation zones marked W, X and Y. (3mks)
    (ii) Describe the characteristics of the savanna vegetation. (6mks)
    (iii) Name the temperate grasslands found in the following countries:
          • Canada (1mk)
          • Russia (1mk)
          • Australia (1mk)

b)  Explain three causes of the decline of the areas under forest in Kenya. (6mks)

c)  You are supposed to carry out a field study on the uses of vegetation in the area your school.
    (i)  State three reasons why it would be necessary to visit the area
         before the day of the study. (3mks)
    (ii) Give four uses of you are likely to identify during the study (4mks)

10. a)  (i) What is soil catena?
        (ii) Draw a labeled diagram to show a well developed soil profile. (5mks)
        (iii) State three characteristics of the soils found in the arid regions of
              Kenya. (3mks)

b)  Give three factors that determine the colour of soil.

c)  Describe how laterization occurs. (6mks)

d)  Explain how the following farming practices cause soil erosion.
    (i)  Burning (2mks)
    (ii) Continuous application of fertilizer on farm lands. (2mks)
    (iii) Monocultures. (2mks)
1. (a) Differentiate between transport and communication (2 mks)
(b) State three causes of the decline in the use of letter writing as means of communication in Kenya (3 mks)

2. (a) Give two methods used to reclaim land in Kenya (2 mks)
(b) Outline the stages through which land is reclaimed from the sea in the Netherlands (3 mks)

3. The table below represents information on population change in Kenya by province between years 2000 and 2005

<table>
<thead>
<tr>
<th>Province</th>
<th>Population in Millions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Years</td>
</tr>
<tr>
<td></td>
<td>2000</td>
</tr>
<tr>
<td>Nairobi</td>
<td>2.229</td>
</tr>
<tr>
<td>Central</td>
<td>3.882</td>
</tr>
<tr>
<td>Coast</td>
<td>2.662</td>
</tr>
<tr>
<td>Eastern</td>
<td>4.840</td>
</tr>
<tr>
<td>North-Eastern</td>
<td>1.054</td>
</tr>
<tr>
<td>Nyanza</td>
<td>4.598</td>
</tr>
<tr>
<td>Rift Valley</td>
<td>7.386</td>
</tr>
<tr>
<td>Western</td>
<td>5.532</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30.183</strong></td>
</tr>
</tbody>
</table>

(a) Which province had the highest change in population between 2000 and 2005? (2 mks)
(b) Calculate the percentage increase in population in Kenya between 2000 and 2005 (2 mks)

4. (a) State three physical conditions that are necessary for the growing of cocoa (3 mks)
(b) Give three economic problems experienced in cocoa farming in Ghana (3 mks)

5. (a) State two reasons why some industries are located near the sources of raw materials (2 mks)
(b) Give three characteristics of the cottage industry in India (3 mks)
6. The graph below shows percentage value of some export commodities from Kenya between 1999 and 2003. Use it to answer questions (a) and (b)

(a) (i) What was the percentage value of the tea exported in the year 2000? (2mks)
(ii) What was the difference in the percentage values of the horticultural products and coffee exports in 1999? (2mks)
(iii) Describe the trend of the value of coffee exports from 1999 to 2003 (3mks)
(iv) Explain three factors which may have led to the increased export earnings from horticultural produce in Kenya between years 1999 and 2003 (6mks)
(v) Give three advantages of using simple line graphs to represent data. (3mks)

(b) State four reasons why Kenya’s agricultural export earnings are generally low (4mks)

(c) State five reasons why the common market for Eastern and southern Africa (5mks)

7. Use the map of East Africa below to answer question (a) (i)
(a) (i) Name the national parks marked P, Q, and R (3 mks)

(ii) Explain the difference between the tourist attractions in East Africa and Switzerland under the following sub-headings.

- Climate (2 mks)
- Culture (2 mks)

(b) Explain five benefits that Kenya derives from tourism

(c) Explain four measures that Kenya should take in order to attract more tourists (8 mks)

8. The diagram below represents the functional zones of urban centre. Use it to answer question (a).

(a) Name the zones marked x and y

(ii) List three functions of the central Business District (3 mks)

(iii) State two ways in which the residents of the zone labeled AGRICULTURAL LAND benefit from the urban centre (2 mks)

(b) State four factors that contribute to the emergence of slums in urban centers (4 mks)

(c) Explain the measures that could be taken to control the following problems in urban centers in Kenya

(i) High rate of crime (2 mks)
(ii) water pollution (2 mks)

(d) Explain five factors that led to the growth of Kisumu town (10 mks)

9. Use the map of Africa below to answer question (a) (i)
(a) (i) Name the power dams marked J, K and L  
(ii) Explain four ways in which Kenya has benefited from the development of the seven forks hydro-electric power scheme.  

(b) (i) Apart from oil, name two other non-renewable sources of energy  
(ii) Explain four effects that the increase in oil prices has had on the economies of the oil-importing countries of Africa.  

(c) State four ways in which Kenya reduce the use of petroleum as a source of energy  

10. (a) (i) Define the term fisheries  
(ii) Name two countries in Southern Africa that are important for marine fish production  

(b) Explain four factors that favour the fishing industry in Japan  

(c) Describe purse seining as a method of fishing  

(d) (i) State four problems experienced in the marketing of fish in Kenya  
(ii) State three ways in which the Kenya Government is promoting the fishing industry in the country
1. (a) State two effects of the rotation of the earth (2 mks)

(b) Study the diagram below and answer the questions that follow

(i) Which movement of the earth is represented by the diagram? (1 mk)

(ii) Give two effects of the movement represented by the diagram (2 mks)

2. (a) name two types of the coastal deltas (2 mks)

(b) State two conditions that lead to deposition of silt at the mouth of a river (2 mks)

3. The diagram below represents a barchan. Use it to answer questions (a)

(a) Name

(i) the feature marked X (1mk)

(ii) The air current marked Y (1mk)

(iii) The slope marked Z (1 mk)

(b) Give two ways in which wind transports its load (2mks)
4. The diagram below represents the structure of the earth. Use it to answer question

![Diagram of Earth's structure](image)

(a) Name
   (i) The parts marked P and Q (2 mks)
   (ii) The discontinuity marked R (1 mk)

(b) State three characteristics of the mantle (3 mks)

5. (a) Name the two types of earth movements that occur within the earth’s crust (2 mks)

(b) Describe the origin of the continents according to the Theory of continental Drift (3 mks)

SECTION B
Answer questions 6 and any other two questions in this following

6. Study the map of Taita Hills (1:50,000) sheet 189/4 provided and answer the following questions

(a) (i) What is the bearing of the peak of Mwatunga hill in grid square 3214 from the water tank in grid square 2619? (2 mks)
   (ii) What is the length in kilometers of the section of the Mwatate – Voi railway line in the south – eastern part of the map? (2 mks)

(b) Draw a rectangle measuring 16 cm by 12 cm to represent the area enclosed by the Eastings 24 and 40 and Northings 20 and 30 (1 mk)

On the rectangle, mark and name the following features:
- Mgange hills (1 mk)
- A rock out crop (1 mk)
- All weather road, bound surface (1 mk)
- River Ruhia (1 mk)
(c) Using evidence from the map, explain three factors that have favoured the establishment of the Teita sisal Estates in the Southern part of the area covered by the map (6 mks)

(d) (i) Describe the distribution of settlement in the area covered by the map (5 mks)

(ii) Citing evidence from the map, give two economic activities carried out in the area covered by the map other than sisal farming (4 mks)

7. (a) Describe the following characteristics of minerals

(i) Colour (2 mks)

(ii) Cleavage (2 mks)

(iii) Hardness (2 mks)

(b) (i) Give two types of igneous rocks (2 mks)

(ii) Explain three conditions necessary for the growth of coral polyps (6 mks)

(c) State four uses of rocks (4 mks)

(d) You are planning to carry out a field study on the rocks within your school environment

(i) Give two secondary sources of information you would use to prepare for the field study (2 mks)

(ii) State why you would need the following items during the field study:

- A fork jembe (1 mks)
- A polythene bag (1 mks)

(iii) Suppose during the field study you collected marble, sandstone and granite, classify each of these samples according to its mode of formation (3 mks)

8. (a) (i) What is climate? (2 mks)

(ii) Explain two effects of climate change on the physical environment (4 mks)

(b) The table below shows rainfall and temperature figures of station in Africa

<table>
<thead>
<tr>
<th>Month</th>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp in °C</td>
<td>24</td>
<td>24</td>
<td>23</td>
<td>22</td>
<td>19</td>
<td>17</td>
<td>17</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>22</td>
<td>23</td>
</tr>
<tr>
<td>Rainfall in mm</td>
<td>109</td>
<td>122</td>
<td>130</td>
<td>76</td>
<td>52</td>
<td>34</td>
<td>28</td>
<td>38</td>
<td>70</td>
<td>108</td>
<td>121</td>
<td>120</td>
</tr>
</tbody>
</table>

(i) On the graph paper provided, draw a bar graph to represent the rainfall figure. (Use a vertical scale of 1 cm to represent 10mm) (5 mks)

(ii) Describe the rainfall pattern of the station (4 mks)
(iii) Calculate the average monthly temperature for the station (Show your calculations) (2mks)

(c) You are supposed to carry out study on the weather within your school compound

(i) Describe how you would use the following instruments during the field study
   - The hygrometer (3 mks)
   - The rain gauge (3 mks)

(ii) State two ways in which the information collected during the field study would be useful to the local community (2 mks)

9. (a) Give three processes that lead to formation of lakes (3 mks)
(b) (i) Describe how lake Victoria was formed (4 mks)
   (ii) Explain how lake Victoria influences the climate of the surrounding areas (6 mks)

(c) (i) Apart from Lake Magadi name two other lakes within the rift valley in Kenya that have a high level of salinity (2 mks)
   (ii) Explain three causes of salinity in Lake Magadi (6 mks)

(d) Give four economic uses of lakes other than mining (4 mks)

10. (a) (i) What is the difference between weathering and mass wasting?
     (ii) Apart from plants, give three other factors that influence the rate of weathering
     (iii) Explain two ways in which plants cause weathering (4 mks)

(b) (i) List two types of mass wasting other than soil creep (2mks)
     (ii) Explain three factors that cause soil creep. (6mks)

(c) Explain four effects of mass wasting on the environment. (8mks)
1. a) Name two exotic breeds of dairy cattle reared in Kenya. (2mks)
   b) State three physical conditions that favour dairy farming in Denmark. (3mks)

2. a) State two climatic conditions that favour the growing of oil palm in Nigeria. (2mks)
   b) Give two problems experienced in the marketing of palm oil in Nigeria. (2mks)

3. The table below shows petroleum production in thousand barrels per day for countries in the Middle East in April 2006. Use it to answer question (a)

<table>
<thead>
<tr>
<th>Country</th>
<th>Production in '000” barrels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Iran</td>
<td>3800</td>
</tr>
<tr>
<td>Kuwait</td>
<td>2550</td>
</tr>
<tr>
<td>Qatar</td>
<td>800</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>9600</td>
</tr>
<tr>
<td>United Arab Emirates</td>
<td>2500</td>
</tr>
<tr>
<td>Iraq</td>
<td>1900</td>
</tr>
</tbody>
</table>

   a) (i) What is the difference in production between the highest and the lowest producer? (1mk)
   (ii) What is the total amount of petroleum produced in April 2006 in the region? (1mk)

   b) State three conditions that are necessary for the formation of petroleum. (3mks)

4. Below is a sketch map showing part of the great Lakes and St. Lawrence Seaway.
   Use it to answer question (a).

   a) Name
(i) the port marked P. (1mk)
(ii) the canal marked Q (1mk)
(iii) the lake marked R (1mk)

b) State three ways in which the great lakes and st. Lawrence Sea way has contributed to the growth of industries in the region. (3mks)

5. a) Apart from HIV and AIDS. Give two other causes of mortality in East Africa. (2mks)

b) State two ways in which the spread of HIV and AIDS in Kenya may slow down economic development. (2mks)

SECTION B

1. The photograph provided shows a tea growing area in Kenya. Use it to answer questions (a) and (b)

   a) (i) What evidence in the photograph shows that this is a ground genera-view type of photograph? (2mks)

   (ii) Draw a rectangle measuring 15cm by 10cm to represent the area of the photograph. On it sketch and label the main features shown on the photograph. (5mks)

   (iii) Identify two features from the photograph that show that this is a small scale tea farm. (2mks)

b) Describe the stages involved in the cultivation of tea from land preparation to the stage shown on the photograph.

   c) (i) Name two districts in the Eastern province where tea is grown. (2mks)

   (ii) Explain four ways in which the Kenya Tea development agency (KTDA) assists small scale tea farmers in Kenya. (8mks)

7 a) Name three agricultural food processing industries in Kenya. (3mks)
b) Explain how the following factors have favoured the development of industries in Thika town:
   (i) Proximity to Nairobi;  (2mks)
   (ii) Availability of water;  (2mks)
   (iii) The hinterland.  (2mks)

c) Explain four ways in which Kenya has benefited from industrialization.  (8mks)

d) (i) Name two towns in Kenya where moto-vehicle assembling plants are located.  (2mks)
   (ii) Explain three factors which have favoured the development of car manufacturing industry in Japan.  (6mks)

8  a) i) What is forestry?  (2mks)
    ii) Explain three factors that favour the growth of natural forests on the slopes of Mt. Kenya.  (6mks)
    iii) State five factors that have led to the reduction of the area under forest on the slopes of Mt Kenya.  (5mks)

c) Give the differences in the exploitation of softwood forests in Kenya and Canada under the following sub-headings;
   i) Period of harvesting;  (2mks)
   ii) Transportation  (2mks)

9  a) (i) Name three international airports in Kenya.  (3mks)
    (ii) Give four advantages of air transport over road transport.  (4mks)

   b) Explain four measures that should be taken to improve road transport in Kenya.  (8mks)

   c) Explain why there are few rail links among African countries. (6mks)

   d) Give four reasons why there is limited use of river transport in Africa. (4mks)

10. a) i) State two causes of water pollution.  (4mks)
    ii) Give two effects of water pollution on the environment  (2mks)

   b) Explain four methods used to control floods on rivers in Kenya.  (8mks)

   c) Explain how the following soil conservation methods improve the quality of soil:
      (i) Contour farming;  (2mks)
      (ii) Mulching;  (2mks)
      (iii) Crop rotation.  (2mks)

   d) You intend to carry out a field study on pollution in the local open air market.
(i) State three reasons why it would be necessary for you to visit the market before the actual study. (3mks)
(ii) Give two methods that would to collect information on pollution. (2mks)
(iii) Give two follow-up activities you would carry out after the field. (2mks)
2008 KCSE GEOGRAPHY QUESTIONS
PAPER 1 312/1
SECTION A
Answer all the questions in this section
1 a) Give three reasons why it is necessary to study the plate tectonics theory. (3mks)
   b) Name two types of tectonic plate boundaries (2mks)
2. a) The diagram below shows a Six's Thermometer. Name the parts marked P, Q and R. (3mks)

   ![Diagram of a Six's Thermometer]

   b) The table below shows temperature readings at a weather station for one week

<table>
<thead>
<tr>
<th>Temp/Day</th>
<th>Mon</th>
<th>Tue</th>
<th>Wed</th>
<th>Thur</th>
<th>Fri</th>
<th>Sat</th>
<th>Sun</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. °C</td>
<td>28</td>
<td>27</td>
<td>28</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>26</td>
</tr>
<tr>
<td>Min. °C</td>
<td>18</td>
<td>18</td>
<td>20</td>
<td>16</td>
<td>22</td>
<td>21</td>
<td>19</td>
</tr>
</tbody>
</table>

   Calculate the following:
   i) The diurnal range of temperature for Tuesday: (1mk)
   ii) The mean temperature for Saturday. (1mk)
3. a) Give two examples of non-metallic minerals. (2mks)
   b) Why is industrial diamond used in shaping hard stones and metals? (1mk)
4. a) Apart from water vapour, name two other substances that are suspended in the atmosphere.
   b) i) Give two factors that are considered when classifying clouds. (2mks)
   ii) Name two types of clouds that give rise to rainfall in the tropical regions. (2mks)
5. a) The diagram below shows an eclipse. Name the features marked V and W. (2mks)

   ![Diagram of an eclipse]
b) State four proofs that the shape of the earth is spherical.  (4mks)

SECTION B

Answer question 6 and any other Two questions from this section

6.  a) Study the map of Kericho 1:50,000 provided and answer the following questions.
   i) Give the longitudinal extent of the area covered by the map.  (1mk)
   ii) Convert the scale of the map into a statement scale.  (2mks)
   iii) What is the approximate height of the hill in the grid square 6770?  (2mks)
   iv) Calculate the area of Kericho Municipality. Give your answer in square kilometers.  (2mks)

   b) i) Give three types of natural vegetation found to the west of Easting 53  (3mks)
   ii) What is the bearing of the trigonometrical station at grid reference 554668 from the factory at grid reference 610626?  (2mks)
   iii) Identify three forms of land transport found to the north of Northing 68 and west of Easting 53?  (3mks)

   c) Describe the distribution of settlements in the area covered by the map.  (4mks)

   d) Citing evidence from the map, explain three factors that favour the establishment of tea estates in the area covered by the map.  (6mks)

7.  a) Differentiate between magma and lava.  (2mks)

   b) The diagram below shows some intrusive volcanic features.

   ![Diagram of volcanic features]

   Name the features marked E, f and G.  (3mks)

   c) Describe how the following features are formed and for each give an example from Kenya:
      i) A crater  (3mks)
      ii) A geyser  (5mks)
      iii) A lava plateau  (4mks)

   d) Explain four ways in which volcanic features influence human activities.  (8mks)

8. a) i) Name two sources of rivers.  (2mks)
ii) The diagram below shows the three stages of the long profile of a river.

[Diagram showing three stages: (i) Youthful Stage, (ii) Mature Stage, (iii) Old Stage]

Give two features formed by the rivers in each of the three stages. (6mks)

b) Describe the processes by which a river transports its load. (6mks)

c) Describe each of the following drainage patterns;
   i) State two methods you would use to collect data. (3mks)
   ii) State three advantages of studying the work of rivers through fieldwork. (3mks)

9. a) i) Describe how ice is formed on a high mountain. (3mks)
   ii) Apart from a valley glacier, name two types of ice masses found on Mountains in East Africa.

b) Explain how the movement of a valley glacier is influenced by the following factors:
   i) Temperature (2mks)
   ii) Width of a glacier channel. (2mks)

c) Describe the distinctive characteristics of the following features resulting from glacial erosion:
   i) A corrie (3mks)
   ii) A pyramidal peak (3mks)
   iii) A fiord (fjord) (3mks)

d) i) The diagram below shows a glaciated upland area

[Diagram showing a glaciated upland area]

Name the features marked M, N, and P.

ii) Describe the process through which a crag and tail is formed (4mks)
10. a) The diagram below shows a breaking sea wave.

\[ \text{Diagram showing a breaking sea wave with labeled features M, N, and P.} \]

i) Name the features marked M, N, and P.
ii) Describe the process through which a crag and tail is formed. (4mks)

b) Describe three processes of wave erosion along the coast. (2mks)

c) Explain how the following factors influence wave deposition:
   i) Gradient of the shore (4mks)
   ii) Depth of the sea (4mks)

e) Using well labeled diagrams, describe how a bay bar is formed. (6mks)
GEOGRAPHY PAPER 2

SECTION A

Answer all the question in this section.
1. State four characteristics of shifting cultivation. (4mks)
2. Give the difference between softwood forests in Kenya and Canada under the following sub-headings.
   a) Distribution of softwood forests (2mks)
   b) Transportation of the logs. (2mks)
3. a) Differentiate between land reclamation and land rehabilitation. (2mks)
   b) State two ways in which each of the following problems experienced at the Mwea irrigation Scheme can be solved;
      i) Low prices of rice (2mks)
      ii) Fluctuating water levels in the irrigation canals. (2mks)
4. Give five reasons why it is necessary to conserve wildlife in Kenya (5mks)
5. a) State two economic benefits of the common Market for Eastern and Southern Africa (COMESA) to the member countries. (2mks)
b) Give four factors that limit trade among countries of Eastern Africa.

SECTION B

Answer question 6 and any other two questions from this section.
6. The photograph below show cattle rearing in an area in Kenya. Use it to answer question (a)

   a) i) Identify the type of photograph. (1mk)
   ii) Describe the features shown on the photograph. (3mks)
   iii) What three indicators show that the area was experiencing drought when the photograph was taken. (3mks)

   b) Discuss nomadic pastoralist in Kenya under the following sub-headings;
      i) The cattle breeds kept (2mks)
      ii) The pattern of movement (2mks)
      iii) Marketing of the animals. (3mks)

   c) i) give three reasons why nomadic pastoralists keep large herds of animals. (3mks)

   ii) Explain four measures taken by the government of Kenya to improve beef cattle farming (8mks)
7. a) i) Give two documents from where information on population data is obtained. (2mks)

ii) The pyramid below represents population structure Kenya.

![Population Pyramid](image)

Describe the characteristics of the population as represented by the pyramid. (3mks)

b) i) In 1989 Kenya population was 21.4 million while in 1999 it was 28.7 million. Calculate the population growth rate over the 10 year period. (Show your calculations) (2mks)

ii) Explain two factors which may have led to the large population increase between 1989 and 1999. (4mks)

c) Explain three consequences of high population growth rate. (6mks)

d) Explain four physical factors that influence population distribution in East Africa. (8mks)
8. a) The table below shows the quantity of minerals produced in Kenya in tones between years 2001 and 2005. Use it to answer questions (a) (i) and (ii).

<table>
<thead>
<tr>
<th>Mineral/Year</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soda ash</td>
<td>297,789</td>
<td>304,110</td>
<td>352,560</td>
<td>353,835</td>
<td>360,161</td>
</tr>
<tr>
<td>Fluorspar</td>
<td>11,885</td>
<td>85,015</td>
<td>80,201</td>
<td>117,986</td>
<td>26,595</td>
</tr>
<tr>
<td>Salt</td>
<td>5,664</td>
<td>18,848</td>
<td>21,199</td>
<td>31,139</td>
<td>28,595</td>
</tr>
<tr>
<td>Others</td>
<td>6,093</td>
<td>7,000</td>
<td>4,971</td>
<td>6,315</td>
<td>8,972</td>
</tr>
</tbody>
</table>

Source: Economic Survey 2006

i) Calculate the average annual production of soda ash over the 5 years period. (2mks)

ii) Calculate the total mineral production for the year 2003. (1mk)

b) The diagram below shows shaft mining.

![Diagram of shaft mining]

i) Name the parts marked E, F and G. (3mks)

ii) State two problems associated with shaft mining. (2mks)

iii) Explain four ways in which gold mining has contributed to the economy of South Africa. (8mks)

iv) Explain three negative effective effects of mining on the environment. (6mks)

9. a) State three physical conditions that favour large scale sugarcane farming in Kenya. (10mks)

b) Describe the cultivation of sugarcane farming in Kenya. (10mks)
c) Explain five problems facing sugarcane farming in Kenya. (10 mks)

d) Your class visited a sugar factory for a field study on sugar processing.
   i) Outline four stages if sugar processing that the class may have observed. (4 mks)
   ii) Name two by-products of sugar that the class may have identified during the study. (2 mks)

10. Use the map of North-West Atlantic below to answer questions (a) and (b).

   **NORTH –WEST ATLANTIC FISHING GROUNDS**

   ![Map of North-West Atlantic]

   a) i) Name the country
   ii) Explain how the two ocean currents shown on the map influence fishing in the area shaded on the map other than ocean currents. (6 mks)

   b) Explain three factors that favour fishing in the area shaded on the map other than ocean currents. (6 mks)

   c) Explain why in East Africa, fresh water fishing water in the area shaded on the map other than ocean currents. (6 mks)

   d) The diagram below shows a fishing method

   ![Diagram of fishing method]
i) Describe how the method is used in catching fish. (5mks)
ii) List three methods used to preserve fish. (3mks)
SECTION A

Answer ALL the questions in this section

1. (a) Differentiate between the processes of the formation of plutonic rocks and volcanic rocks

(b) For each of the following sedimentary rocks, name the resultant rock that forms after metamorphism:

(i) Sandstone
(ii) Limestone
(iii) Clay

2. Use the diagram below to answer the questions that follow

Outline the process though which the moist winds shown go through to eventually become dry winds

3. (a) What is a line of longitude?
(b) What is the local time at Alexandra 30°E when the local time at Malindi 40°E is 12.00 noon? (2 mks)

4. (a) Outline the steps followed when measuring humidity using a hygrometer (3 mks)

(b) Give two factors that influence relative humidity (2 mks)

5. The diagram below shows some types of folds. Use it to answer question (a)

![Diagram of folds]

(a) Name the type of folds marked E, F, and G (3 mks)

(b) In which countries are the following fold mountains found?

(i) Andes (1 mk)

(ii) Cape Ranges (1 mk)

(iii) Alps (1 mk)

6. The diagram below shows a hydrological cycle.

(a) (i) What do the arrows labeled K, L, and M on the cycle represent? (3 mks)

(ii) Explain three factors that influence the occurrence of surface run-off
(b) (i) What is mass wasting? (2 mks)

(ii) Give two processes of slow mass movement (2 mks)

(iii) State two physical conditions that may influence landslides (2 mks)

(c) Describe the following processes of mass wasting

(i) Rock fall (2 mks)

(ii) Subsidence (2 mks)

(iii) Mud flows (2 mks)

(d) Explain the effect of mass wasting on the following

(i) Tourism (2 mks)

(ii) Soil fertility (2 mks)

7. (a) (i) Name three types of faults (3 mks)

(ii) Apart from compressional forces, explain two other processes that may cause faulting (4 mks)

(b) With the aid of diagrams, describe how compressional forces may have led to the formation of the great rift valley (8 mks)

(c) Explain five ways in which faulting is of significance to human activities
8. (a) (i) Apart from Bird’s Foot delta, name two other types of coastal deltas (2 mks)

(ii) Draw a diagram to show a Bird’s foot delta (3 mks)

(iii) Describe how a Bird’s Foot delta is formed (4 mks)

(b) Explain four factors that influence the development of coast (8 mks)

(c) (i) Differentiate between a barrier reef and a fringing reef? (2 mks)

9. The diagram below represents some coastal features. Name the features marked P, Q and R (3 mks)

(iii) State three conditions necessary for the formation of a beach (3 mks)
10. The diagram below represents underground features in a limestone area. Use it to answer question (a)

(a) (i) Name the features marked X, V and W

(ii) Describe how the feature marked Y is formed

(b) (i) What is an artesian basin?

(ii) Explain three factors which influence the formation of features in limestone areas

(c) You are supposed to carry out a field study of an area eroded by water

(i) Give three reasons why you would need a map of the area of study

(ii) Name two erosional features you are likely to identify during the field study
(iii) State three recommendations that you would make from your study to assist the local community to rehabilitate the eroded area (3 mks)

**K.C.S.E YEAR 2009 GEOGRAPHY PAPER 2**

**SECTION A**

*Answer all the questions in this section*

1. (a) Name two exotic species of trees planted in Kenya (2 mks)

   (b) State three reasons why it is necessary to carry out afforestation programmes in Kenya (3 mks)

2. (a) Give three physical conditions that favour maize cultivation in Trans Nzoia District in Kenya (3 mks)

3. (a) Outline three physical factors that favoured the development of the Seven Forks hydro-electric power scheme (3 mks)

   (b) State two problems facing hydro-electronic power projects in Kenya (2 mks)

4. Use the sketch map below to answer questions (a)

**ROADS AND SETTLEMENTS**
5. (a) Name the main settlement pattern in:

(i) The northern part of the area represented by the sketch map (1 mk)
(ii) The southern part of the area represented by the sketch map (1 mk)
(b) State two ways in which government policy may influence the distribution of human settlements (2 mks)

6. (a) Apart from windstorms, name two other environmental hazards associated with climatic conditions (2 mks)

(b) State three problems caused by windstorms in Kenya (3 mks)

SECTION B

7. Answer questions 6 and other two questions from this section

The table below shows the number of tourists who visited Kenya from various parts of the world in 2005 and 2006. Use it to answer questions (a) and (b)

<table>
<thead>
<tr>
<th>Place of origin</th>
<th>No. of tourists per year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2005</td>
</tr>
<tr>
<td>Europe</td>
<td>942,000</td>
</tr>
<tr>
<td>Africa</td>
<td>120,000</td>
</tr>
<tr>
<td>Asia</td>
<td>97,000</td>
</tr>
<tr>
<td>North America</td>
<td>94,000</td>
</tr>
<tr>
<td>Australia &amp; New</td>
<td>19,000</td>
</tr>
<tr>
<td></td>
<td>2005</td>
</tr>
<tr>
<td>----------------</td>
<td>--------</td>
</tr>
<tr>
<td>Zealand</td>
<td>29,000</td>
</tr>
<tr>
<td>All Other countries</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>1,301,000</td>
</tr>
</tbody>
</table>

(a) (i) Which continent had the highest increase in the number of tourists visiting Kenya between 2005 and 2006? (2 mks)

(ii) Calculate the percentage increase of tourist from Australia & New Zealand between 2005 and 2006. (2 mks)

(iii) Draw a divided rectangle 15 cm long to represent the number of tourists that visited Kenya in 2006. Show your calculations. (10 mks)

(b) (i) State two advantages of using divided rectangles to represent geographical data. (2 mks)

(ii) Give four reasons why in 2005 and 2006 there were more tourists visiting Kenya from Europe compared to those from other parts of the world. (4 mks)

(c) Give five reasons why domestic tourism is being encouraged in Kenya. (5 mks)

8. (a) State three physical conditions that favour coffee growing in the central highlands of Kenya. (3 mks)
(b) Describe the stages involved in coffee production from picking to marketing

(8 mks)

(c) Explain four problems facing coffee farming in Brazil

(8 mks)

(d) Your geography class carried out a field study on a coffee farm

(i) State four methods the class may have used to collect data

( 4 mks)

(ii) During the field study the class collected data on quantities of coffee produced from the farm in the last five years

State two methods that the class may have used to present the data

( 2 mks)

9. (a) (i) What is visible trade?

( 2 mks)

(ii) List three major imports to Kenya from Japan

( 3 mks)

(b) Explain four factors that influence internal trade in Kenya

(8 mks)

(c) State four ways in which trade is of significance to Kenya

(4 mks)

(c) Explain four benefits which members states of ECOWAS derive from the
Formation of the trading bloc (8 mks)

10. (a) (i) Name three agricultural non-food processing industries in Kenya (3 mks)

(ii) State four ways in which Kenya has benefited from the motor-vehicle Assembly industry (4 mks)

(b) Explain three problems arising from industrialization in Kenya (6 mks)

(c) Explain three factors which influenced the location of iron and steel industry in the Ruhr region of Germany in the 19th century (6 mks)

(d) You intend to carry out a field study of furniture-making industry in the local market centre

(i) State two reasons why it would be necessary for you to visit the area of study in advance (2 mks)

(ii) For your field study you have prepared a work schedule. State two items you would include in the schedule (2 mks)

(iii) Give two advantages of studying about furniture making through fieldwork.
The map below shows the location of some urban centres in East Africa.

(a) (i) Name the towns marked P, Q and R. (3 mks)

(ii) Name the minerals that influenced the growth of the towns marked X and Y. (2 mks)

(b) Explain four factors that have led to the growth of Eldoret as a major town in Kenya. (8 mks)

(c) Compare the ports of Mombasa and Rotterdam under the following sub-headings:

(i) Site (2 mks)

(ii) Transport links to the interior (2 mks)
(iii) The hinterland  
(iv) Port facilities  
(d) Explain two ways in which urbanization negatively affects the surrounding agricultural areas  

**K.C.S.E YEAR 2010 PAPER 1**  
**SECTION A**  
*Answer ALL the questions in this section.*

1. Give **three** components of the solar system.  
   (3 marks)  
2. (a) Identify **two** types of high level clouds.  
   (2 marks)  
   (b) Draw a well labelled diagram of a hydrological cycle.  
   (5 marks)  
3. (a) Give **three** causes of earthquakes.  
   (3 marks)  
   (b) Name two major earthquake zones of the world.  
   (2 marks)  
4. (a) What is a rock?  
   (2 mark)  
   (b) Give **three** characteristics of sedimentary rocks.  
   (3 marks)  
5. (a) The diagram below shows some coastal features  

   ![Coastal Features Diagram]

   Name the features marked P, Q and R.  
   (3 marks)  
   (b) State **two** conditions necessary for the formation of a beach.  
   (2 marks)  

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

6. Study the map of Homa Bay (1:50,000) sheet 129/2 provided and answer the following questions.  
   (a) A pipeline is to be laid from Lake Victoria along the line marked X-Y.  
   (i) What is the length of the piping to be used?
(Give your answer to the nearest 100 metres).

(ii) Calculate the bearing of point Y from point X

(iii) Calculate the area of the part of Lake Victoria shown on the map excluding the marshy sections. (Give your answer in square kilometers).

(b) The rectangle below represents the area in the map extract bounded by Eastings 54 and 60 and Northings 35 and 40. Identify and name the features marked J, K, L and M.

(c) (i) Explain three factors which have influenced the distribution of settlements in the area covered by the map.

(ii) Citing evidence from the map, give two agricultural activities carried out in the area covered by the map.

(d) Describe the drainage of the area covered by the map.

7. The map below shows some vegetation regions of the world. Use it to answer questions (a) and (b). coniferous forest

(a) (i) Name the temperate grasslands marked D, E and F.
(ii) Describe the characteristics of the natural vegetation found in the shaded area marked G. (6 marks)

(b) Explain how climate has influenced the existence of the following types of vegetation shown on the map.

(i) Desert vegetation; (4 marks)
(ii) Coniferous forest. (4 marks)

(c) You are required to carry out a field study of the natural vegetation within your local environment.

(i) Apart from identifying the different types of plants, state three other activities you would carry out during the field study. (3 marks)
(ii) How would you identify the different types of plants? (3 marks)
(iii) State two ways in which the information collected during the field study would be useful to the local community. (2 marks)

8. (a) Describe plucking as a process in glacial erosion. (4 marks)

(b) Explain three conditions that lead to glacial deposition. (6 marks)

(c) The diagram below shows features resulting from glacial deposition on a lowland area.

Direction of movement of ice

(i) Name the features marked X, Y and Z. (3 marks)
(ii) Describe how terminal moraine is formed. (4 marks)

(d) Explain four positive effects of glaciation in lowland areas. (8 marks)

9. (a) Differentiate between river rejuvenation and river capture. (2 marks)

(b) Give three features resulting from;

(i) river rejuvenation; (3 marks)
(ii) river capture. (3 marks)

(c) Explain the four ways through which a river transports its load. (8 marks)
You are planning to carry out a field study on the lower course of a river.

(i) Give three reasons why you would require a route map. (3 marks)

(ii) State three characteristics of a river at the old stage that you are likely to observe during the field study. (3 marks)

(iii) Give three follow-up activities you would be involved in after the field study. (3 marks)

10 The diagram below represents a well developed soil profile. Use it to answer question (a).

(a) (i) Describe the characteristics of horizon B. (3 marks)

(ii) Apart from humus, name three other components of soil. (3 marks)

(iii) State three ways in which humus contributes to the quality of soil. (3 marks)

(b) (i) Differentiate between soil structure and soil texture. (2 marks)

(ii) Explain how the following factors influence the formation of soil:
   - topography; (6 marks)
   - time. (2 marks)

(c) Explain how the following farming practices may lead to loss of soil fertility:
   (i) overgrazing; (2 marks)
   (ii) frequent ploughing; (2 marks)
   (iii) continuous irrigation. (2 marks)
1. (a) Name two exotic species of trees planted in Kenya.
   (2 marks)
   (b) State three reasons why it is necessary to carry out afforestation programmes in Kenya.
   (3 marks)

2. (a) Give thee physical conditions that favour maize cultivation in Trans Nzoia District in Kenya. (3 marks)
   (b) State three problems facing maize farming in Kenya.

3. (a) Outline three physical factors that favoured the development of the Seven Forks hydro-electric power scheme. (3 marks)
   (b) State two problems facing hydro-electric power projects in Kenya. (2 marks)

4. Use the sketch map below to answer question (a).

   (a) Name the main settlement pattern in:
       (i) the northern part of the area represented by the sketch map; (1 mark)
       (ii) the southern part of the area represented by the sketch map. (1 mark)
   (b) State two ways in which government policy may influence the distribution of human settlements. (2 marks)

5. (a) Apart from windstorms, name two other environmental hazards associated with climatic conditions. (2 marks)
   (b) State three problems caused by windstorms in Kenya. (3 marks)

SECTION B
Answer question 6 and any other two questions from this section.

6. The table below shows the number of tourists who visited Kenya from various parts of the world in 2005 and 2006. Use it to answer questions (a) and (b).
<table>
<thead>
<tr>
<th>Place of Origin</th>
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<td>19,000</td>
</tr>
<tr>
<td>All other countries</td>
<td>29,000</td>
</tr>
<tr>
<td>Total</td>
<td>1,301,000</td>
</tr>
</tbody>
</table>

Source: Central Bureau of Statistics

(a) Which continent had the highest increase in the number of tourists visiting Kenya between 2005 and 2006? (2 marks)

(ii) Calculate the percentage increase of tourists from Australia & New Zealand between 2005 and 2006. (2 marks)

(iii) Draw a divided rectangle 15cm long to represent the number of tourists that visited Kenya in 2006. Show your calculations. (10 marks)

(b) (i) State two advantages of using divided rectangles to represent geographical data. (2 marks)

(ii) Give four reasons why in 2005 and 2006 there were more tourists visiting Kenya from Europe compared to those from other parts of the world. (4 marks)

(c) Give five reasons why domestic tourism is being encouraged in Kenya. (5 marks)

7. (a) State three physical conditions that favour coffee growing in the central highlands of Kenya. (3 marks)

(b) Describe the stages involved in coffee production from picking to marketing. (8 marks)

(c) Explain four problems facing coffee farming in Brazil. (8 marks)

(d) Your geography class carried out a field study on a coffee farm.

(i) State four methods the class may have used to collect data. (4 marks)

(ii) During the field study, the class collected data on quantities of coffee produced from the farm in the last five years. State two methods that the class may have used to present the data. (2 marks)

8. (a) (i) What is visible trade? (2 marks)

(ii) List three major imports to Kenya from Japan. (3 marks)
(b) Explain four factors that influence internal trade in Kenya.  
(8 marks)
(c) State four ways in which trade is of significance to Kenya.  
(4 marks)
(d) Explain four benefits which member states of ECOWAS derive from the formation of the trading bloc.  
(8 marks)

9. (a) (i) Name three agricultural non-food processing industries in Kenya.  
(3 marks)
(ii) State four ways in which Kenya has benefited from the motor-vehicle assembly industry.  
(4 marks)
(b) Explain three problems arising from industrialization in Kenya.  
(6 marks)
(c) Explain three factors which influenced the location of iron and steel industry in the Ruhr region of Germany in the 19th Century.  
(6 marks)
(d) You intend to carry out a field study of a furniture-making industry in the local market centre.
   (i) State two reasons why it would be necessary for you to visit the area of study, in advance.  
   (2 marks)
   (ii) For your field study you have prepared a work schedule. State two items you would include in the schedule.  
   (2 marks)
   (iii) Give two advantages of studying about furniture making through fieldwork.  
   (2 marks)

10. The map below shows the location of some urban centres in East Africa.

(a) (i) Name the towns marked P, Q and R.  
(ii) Name the minerals that influenced the growth of the towns marked X and Y.  
(2 marks)
(b) Explain four factors that have led to the growth of Eldoret as a major town in Kenya.  
(8 marks)
(c) Compare the ports of Mombasa and Rotterdam under the following sub-headings:
(i) site;
(2 marks)
(ii) transport links to the interior;
(2 marks)
(iii) the hinterland;
(2 marks)
(iv) port facilities.
(2 marks)

(d) Explain two ways in which urbanization negatively affects the surrounding agricultural areas.
The diagram below shows the angles of the sun's rays at different latitudes when the sun is at the equator. Use it to answer questions (a) and (b).

(a) Name the parts of the earth's surface marked J and K. (2 marks)

(b) Give two reasons why the intensity of the insolation is higher at M than at N. (2 marks)

(a) What is weathering? (3 marks)

(b) Give three factors that influence the rate of weathering. The diagram below shows a composite volcano. (2 marks)
(a) Name the features marked P, Q and R. (3 marks)

(b) How is a parasitic cone formed? (3 marks)

(a) What is land breeze? (2 marks)

(b) Give two ways in which sea breezes influence the adjacent land. (2 marks)

The diagram below shows ways through which wind transports its load.

(a) Name the three ways labelled E, F and G.
(3 marks)

(b) Name **three** features produced by wind abrasion in arid areas.
(3 marks)
SECTION B

Answer question 6 and any two other questions from this section.

Study the map of Nkubu (1:50,000) sheet 122/1 provided and answer the following questions.

(a) (i) Give the latitudinal and longitudinal position of the North East corner of the map extract (2 marks)

(ii) Give two methods used to represent relief on the map. (2 marks)

(iii) What is the relief feature found, at the top of Kirui Hill within Mt. Kenya forest. (1 mark)

(iv) Apart from administration, give three other services that are provided at Nkubu Divisional Headquarters. (3 marks)

(b) (i) What is the length in kilometers of the all-weather bound surface road from the bridge at Nkubu water works (509935) to the road junction near Gitimbi (509995)? (2 marks)

(ii) State three problems that may be encountered during construction of roads in the area covered by the map. (3 marks)

(c) Citing evidence from the map, give three reasons why cattle rearing is widespread in Nkubu area. (6 marks)

(d) Describe the drainage of the area covered by the map. (6 marks)

7. (a) (i) State three conditions that are necessary for siting a weather station. (3 marks)
Give **four** reasons why weather forecasting is important. (4 marks)

(b) The table below shows the temperature and rainfall figures for a weather station in Kenya. Use it to answer question (b) and (c).

<table>
<thead>
<tr>
<th>Month</th>
<th>J</th>
<th>F</th>
<th>M</th>
<th>A</th>
<th>M</th>
<th>J</th>
<th>A</th>
<th>S</th>
<th>O</th>
<th>N</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>monthly</td>
<td>16.2</td>
<td>16.5</td>
<td>17.1</td>
<td>17.1</td>
<td>16.1</td>
<td>15.2</td>
<td>15.2</td>
<td>15.0</td>
<td>16.0</td>
<td>16.1</td>
<td>16.3</td>
</tr>
<tr>
<td>Rainfall</td>
<td>2 125</td>
<td>100</td>
<td>104</td>
<td>175</td>
<td>232</td>
<td>323</td>
<td>218</td>
<td>196</td>
<td>231</td>
<td>196</td>
<td>152</td>
</tr>
</tbody>
</table>

Source: Kenya Meteorological Department

Calculate:

(i) The mean annual temperature for the station. (2 marks)

(ii) The annual range of temperature for the station. (2 marks)

(c) (i) On the graph paper provided, draw a bar graph to represent the rainfall figures for the station. Use a vertical scale of 1cm to represent 20mm. (5 marks)

(ii) Describe the characteristics of the climate experienced at the weather station. (3 marks)

(d) Suppose you visited a weather station for a field study on weather;
(i) Give three methods you would use to collect data. (3 marks)

(ii) State three advantages of studying weather through fieldwork. (3 marks)

8. The map below shows the location of some mountain ranges.

(a) Name the ranges marked P, Q, R and S. (4 marks)

(b) (i) Apart from fold mountains, name three other features resulting from folding. (3 marks)

   (ii) With the aid of labelled diagrams, describe how fold mountains are formed. (10 marks)
(c) Explain the significance of fold mountains to human activities. (8 marks)

9. (a) (i) what are tides? (2 marks)
    (ii) Give three causes of ocean currents. (3 marks)
    (iii) Name the three ocean currents along the western coast of Africa. (3 marks)

(b) (i) State three characteristics of submerged lowland coasts. (3 marks)
    (ii) Explain three factors that determine the rate of coastal erosion. (6 marks)

(c) With the aid of labelled diagrams, describe the process through which a stack is formed. (8 marks)

10 (a) (i) What is a lake? (2 marks)
    (ii) Name two crater lakes in Kenya. (2 marks)

(b) Describe how the following lakes are formed.
(i) corrie lake

(ii) oasis

(iii) lagoon.

(c) (i) Give three reasons why some lakes in Kenya have saline water. (3 marks)

(ii) Explain how each of the following has affected lakes in Kenya:

• deforestation (2 marks)

• industrialisation (2 marks)

• water needs. (2 marks)
1. (a) Name two exotic breeds of commercial beef cattle reared in Kenya.  
(2 marks)

(b) Outline two similarities of commercial beef cattle farming in Kenya and Argentina.  
(2 marks)

2. (a) Define the term fisheries.  
(2 marks)

(b) State three ways in which marine fisheries in Kenya can be conserved.  
(3 marks)

3. Name two Prairie Provinces of Canada where wheat is grown on a large scale.  
(2 marks)

Give three physical conditions that favour large scale wheat farming in the prairie provinces of Canada.  
(3 marks)

4. (a) State three reasons why paper milling industries are located near rivers.  
(3 marks)

(b) Name three industries in Kenya that use agricultural non-food products as raw
5. (a) State three measures which the government of Kenya has taken to reduce infant mortality. (3 marks)

(b) Give two negative effects of low population growth in a country. (2 marks)

SECTION B

Answer question 6 and any other two questions from this section.

6. Study the photograph below and use it to answer the question.
(a) (i) What evidence shows that this is a ground general-view photograph? (2 marks)

(ii) Draw a rectangle measuring 12 cm by 8 cm. (1 mark)

(iii) On the rectangle, sketch and label the following features shown on the photograph:

- planted crops (1 mark)
- tree stumps (1 mark)
- forest (1 mark)
- felled trees (1 mark)
- the sky. (1 mark)

(iv) Describe the characteristics of the forest shown on the photograph. (5 marks)

(b) Explain four measures being taken by the Government of Kenya to control human encroachment on forested areas. (8 marks)

(c) Give the differences between softwood forests in Kenya and Canada under the following sub headings:

(i) tree harvesting (2 marks)

(ii) marketing of forest products. (2 marks)

7. Use the map below to answer question a(i) and (ii).
(a) Name

(i) The rivers marked E, F and G.  
(ii) The human-made lakes marked H and J.  
(iii) Explain four measures which should be taken to improve inland water transport in Africa.  

(b) State four ways in which communication contributes to economic development in Kenya.  

(c) Explain four problems facing railway transport in Africa.
8. (a)  
   (i)  Give **four** factors common to Kenya and the Netherlands that have favoured horticultural farming.  
   (4 marks)
   
   (ii) State three features of horticultural farming in the Netherlands  
   .(3 marks)
(b) The table below shows the quantity and value of Kenya's horticultural exports between June 2008 and June 2009. Use it to answer question (b).

<table>
<thead>
<tr>
<th>Month</th>
<th>Quantity (metric tonnes)</th>
<th>Value (Ksh in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 2008</td>
<td>15,300</td>
<td>3,480</td>
</tr>
<tr>
<td>July</td>
<td>15,600</td>
<td>3,900</td>
</tr>
<tr>
<td>August</td>
<td>14,000</td>
<td>4,000</td>
</tr>
<tr>
<td>September</td>
<td>14,900</td>
<td>3,500</td>
</tr>
<tr>
<td>October</td>
<td>15,600</td>
<td>4,000</td>
</tr>
<tr>
<td>November</td>
<td>14,700</td>
<td>4,020</td>
</tr>
<tr>
<td>December</td>
<td>14,000</td>
<td>4,000</td>
</tr>
<tr>
<td>January 2009</td>
<td>15,900</td>
<td>4,700</td>
</tr>
<tr>
<td>February</td>
<td>16,000</td>
<td>4,100</td>
</tr>
<tr>
<td>March</td>
<td>17,500</td>
<td>4,400</td>
</tr>
<tr>
<td>April</td>
<td>14,900</td>
<td>3,700</td>
</tr>
<tr>
<td>May</td>
<td>15,190</td>
<td>3,800</td>
</tr>
<tr>
<td>June</td>
<td>14,600</td>
<td>3,600</td>
</tr>
</tbody>
</table>

(i) What was Kenya's total value of exports from horticulture between June 2008 and June 2009? (2 marks)

(ii) Comment on the trend of the quantity of Kenya's horticultural exports between June 2008 and June 2009. (3 marks)

(iii) Using the data provided, draw a simple line graph to represent the quantity of Kenya's horticultural exports. (5 marks)

Use a vertical scale of 1 cm to represent 500 metric tonnes.

Explain four difficulties that farmers in Kenya experience in marketing horticultural produce. (8 marks)

9. (a) What is eco-tourism? (2 marks)
(b) (i) Give four tourist attractions found at the coast of Kenya. (4 marks)
(ii) State five problems associated with tourism in Kenya. (5 marks)
(b) State four ways in which game reserves are of benefit to the communities living near them.
(4 marks)

(d) Explain the differences between tourism in Kenya and Switzerland. (10 marks)

10. (a) Differentiate between a rural settlement and an urban centre. (2 marks)

(b) Explain how the following physical factors influence human settlement:

(i) relief (6 marks)

(ii) climate. (4 marks)

Explain the causes of the following problems in urban centres in Kenya:

(i) traffic congestion (4 marks)

(ii) environmental degradation. (4 marks)

(d) (i) Name two towns in Kenya that started as agricultural collection centres. (2 marks)

(ii) Give three social functions of Kisumu town. (3 marks)
(a) What is the relationship between Geography and Mathematics? (2 marks)

(b) State four reasons why it is important to study Geography. (4 marks)

2 (a) Name the two layers of discontinuity that are part of the interior structure of earth. (2 marks)

(b) State three characteristics of the outer core in the interior structure of the earth. (3 marks)

3 (a) Name two forms of precipitation that commonly occur in Kenya. (2 marks)

(b) What is a Stevensons screen? (2 marks)

4 (a) Identity two causes of earth movement. (2 marks)

The diagram below shows some features formed as a result of faulting.
(b) Identify:
(i) the angle marked J. (1 mark)
(ii) the features marked K and L. (2 marks)

(a) Identify two sources of water found in a lake. (3 marks)

(b) Give three characteristics of lakes formed due to faulting (2 marks)

SECTION B

Answer question 6 and any other two questions from this section.

Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions.

(a) (i) Identify the two human made features found at the grid square 2320. (2 marks)

(ii) What is the altitude of the highest point in the area covered by the map? (2 marks)

(iii) Give three types of natural vegetation found in the area covered by the map. (3 marks)
(b)  (i) What is the bearing of the Air Photo Principal Point at grid square 3426 from the
Air Photo Principal Point at grid square 2931?  

(ii) Measure the distance of the dry weather road (C 640) from the junction at point M (345142) to the junction at point N (416201). Give your answer in Kilometres. (2 marks)

(c) (i) Using a scale of 1 cm to represent 40 metres, draw a cross section from grid
reference 410180 to grid reference 500180.  

(ii) On the cross-section, mark and name the following:
- a dry weather road; (1 mark)
- River Kaptarit; (1 mark)
- a ridge. (1 mark)

(iii) Calculate the vertical exaggeration (VE) of the section. (2 marks)

(d) Citing evidence from the map, identify five social services offered in Kitale Municipality. (5 marks)

(7) (i) What is a mineral?  

(ii) Describe the following characteristics of minerals:
- lustre; (2 marks)
- colour; (2 marks)
- density. (2 marks)

(b) (i) Name two examples of extrusive igneous rocks. (2 marks)

(ii) Describe three ways in which sedimentary rocks are formed. (9 marks)
(c) Explain the significance of rocks to the economy of Kenya under the following subheadings:

(i) tourism; \hspace{1cm} (2 marks)
(ii) energy; \hspace{1cm} (2 marks)
(iii) water. \hspace{1cm} (2 marks)

8. (a) Explain the following processes of weathering:

(i) hydration; \hspace{1cm} (2 marks)
(ii) oxidation; \hspace{1cm} (2 marks)
(iii) frost action. \hspace{1cm} (3 marks)

(b) Describe how an exfoliation dome is formed. \hspace{1cm} (6 marks)

(c) Explain three physical factors that enhance movement of materials along a slope due to gravity. \hspace{1cm} (6 marks)

(d) (i) Give two processes of rapid mass movement. \hspace{1cm} (2 marks)
(ii) State four indicators of occurrence of soil creep in an area. \hspace{1cm} (4 marks)

9. (a) (i) Outline two factors that influence the development of drainage patterns. \hspace{1cm} (2 marks)
(ii) Outline five characteristics of a river in its youthful stage. \hspace{1cm} (5 marks)

(b) Describe the following processes of river erosion:

(i) attrition; \hspace{1cm} (2 marks)
(ii) corrasion. \hspace{1cm} (4 marks)

(c) Explain three negative effects of rivers to the human environment.
Your class is planning to carry out a field study of a river in its old stage. (3 marks)

(i) State **three** reasons why it would be necessary to pre-visit the area of study. (3 marks)
SECTION A
Answer all the questions in this section.

1. (a) What is mining? (2 marks)
   
(b) State four benefits of Soda Ash mining to the economy of Kenya. (4 marks)

2. (a) Name two methods used in deep sea fishing. (2 marks)
   
(b) State three ways in which the government of Kenya is promoting the fishing industry. (3 marks)

3. (a) Apart from the sun, name three other sources of electricity. (3 marks)
   
(b) Give three advantages of using solar energy. (3 marks)

4. Give three reasons why it is necessary for the government of Kenya to carry out a national census. (3 marks)
   
(a) Identify two methods used to control tsetse flies in Kenya. (2 marks)
   
(b) State three negative effects of uncollected garbage on the environment. (3 marks)
SECTION B

Answer questions 6 and any other two questions in this section.

6. Study the photograph below and answer question

![Photograph of cows and a mountain]

Source: Internet

(a) (i) Identify the type of photograph shown above. (1 mark)

(ii) Draw a rectangle measuring 15 cm by 10 cm to represent the area covered by the photograph. (1 mark)
(iii) On the rectangle, sketch and label **four** main features shown on the photograph. (4 marks)

(iv) Using evidence from the photograph, identify **two** indicators which show that the area receives high rainfall. (2 marks)

(b) (i) Name **three** exotic types of dairy cattle reared in Kenya. (3 marks)

(ii) Explain **three** human factors that favour dairy farming in the Kenya Highlands. (6 marks)

(C) Explain **four** ways in which dairy farming in Kenya is different from dairy farming in Denmark. (8 marks)

7. (a) (i) What is agro-forestry? (2 marks)

(ii) Give **four** reasons why agro-forestry is encouraged in Kenya. (4 marks)

(b) Use the map of Kenya below to answer questions (b) (i) and (ii).
(i) Name the forest reserves marked H, J and K.  
(3 marks)

(ii) Explain four factors that favour the growth of natural forest in the area marked L.  
(8 marks)

(c) Explain four problems facing forestry in Kenya.  
(8 marks)

8. (i) Name two provinces in Canada where wheat is grown on a large scale.  
(2 marks)
(a) (ii) State three physical conditions that favour wheat farming in Canada.
(3 marks)

(b) Compare wheat farming in Kenya and Canada under the following subheadings:
   (i) research;                          (2 marks)
   (ii) government policy;              (2 marks)
   (ii) transport.                      (2 marks)

(b) Explain four problems that affect wheat farming in Canada.
(8 marks)

(c) Your Geography class intends to carry out a field study on wheat harvesting in a farm.

(i) State two reasons for preparing a working schedule.  (2 marks)

(ii) Outline two problems that face wheat harvesting you are likely to find out.
(2 marks)

(iii) Suppose during the field study you used the interview method to collect data,
      state two limitations of the method.     (2 marks)

9. (a) (i) Identify the three types of inland waterways used for transport in Africa.
(3 marks)

(ii) Give four reasons why the government of Kenya is expanding pipeline transport.
(4 marks)
(b) (i) State **three** advantages of railway transport. (3 marks)

(ii) State **four** conditions of roads in Kenya that may lead to motor vehicle accidents. (4 marks)

(c) The sketch map below shows the Great Lakes and St. Lawrence Seaway. Use it to answer question C.

**KEY:**
xxxxxxx - International Boundary.

Name:
(i) the ports marked M and P.
(ii) the Lake marked N.
(d) Explain four benefits of the Great Lakes and St. Lawrence Seaway to the economies of U.S.A. and Canada. (8 marks)

10. (a) (i) Name two settlement patterns. (2 marks)

(ii) Explain four physical factors that influence settlement. (8 marks)

(b) (i) Explain how the following factors have led to the growth of Thika town.

- Location; (2 marks)
- Transport; (2 marks)
- Land. (2 marks)

(ii) Apart from being a transport and communication centre, give three other functions of Thika town. (3 marks)

(c) Explain three positive effects of urbanization to a country. (6 marks)