GEOGRAPHY PP1 SERIES 5

EXAMINERS PROJECTION 10 PAPERS

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GEOGRAPHY PP1 SERIES 5 EXAMINERS' PROJECTION 10 PAPERS

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PP1 PROJECTION NO. 41

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

(a)This paper has **two** Sections **A** and **B**.

(b)Answer all the questions in Section **A**.

(c)Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.

(f) Candidates should answer the questions in English.

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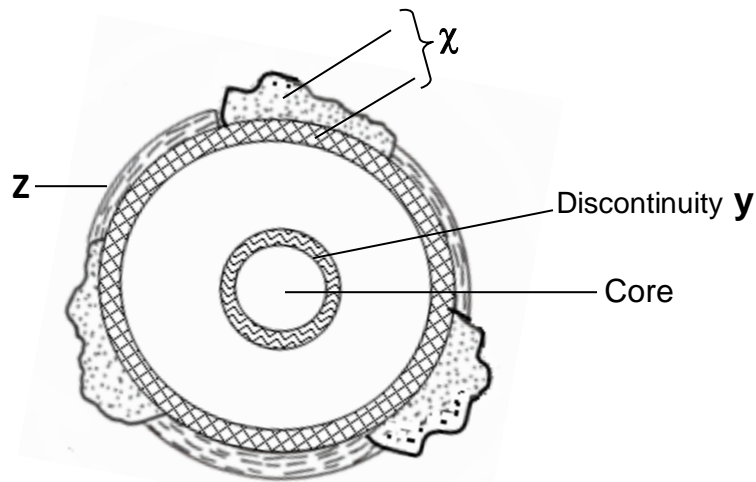| Question	Maximum score	Candidate's score
1-	80	

SECTION A
Answer ALL Questions.

1. (a)   Apart from causing seasons. State **two** other effects of revolution of the earth round the sun.
(2mks)

  (b) The diagram **below** shows internal structure of the earth. Name the parts marked **X, Y, Z**.   (3mks)

        X:
        Y:
        Z:

2.   (a)   The table **below** shows some examples of metamorphic rocks.

        Complete the table.   (3mks)

Original Rock	Metamorphic Rock
	Marble
Augite	
	Schist

(b) Give **three** examples of rocks classified as intrusive plutonic rocks. (3mks)

3. Using one diagram, draw and label the following features of vulcanicity: (3mks)
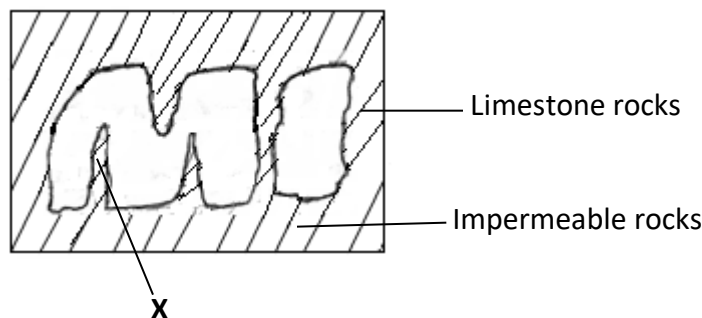   (i) Dyke
    (ii) Batholith
    (iii) Laccolith

(b) Name **two** lava plateaus in Kenya. (2mks)

4. (a) State **three** characteristics of coniferous forest. (3mks)

(b) Give the names of temperate grasslands in the following contours: (2mks)
    (i) U.S.A.
    (ii) Eurasia
    (iii) Australia
    (iv) South Africa

5. The diagram **below** shows a limestone cave. Describe how feature X forms. (4mks)

SECTION B
Answer question <u>6</u> and any other <u>two questions</u> in this section

6. (a) Study the map of Kitale (1:50,000) (sheet 75/3) provided and answer the following questions:
(i) What was magnetic variation when the map was prepared in 1960? (1mk)
(ii) Identify <u>two</u> counties represented by the area covered by the map. (2mks)

(b) (i) Give the latitudinal extend of the area covered by the map(2mks)
     (ii) Give the six figure, grid reference of trigonometric station 7586 west of Dafina Estate.   (2mks)

(c) (i)   Find the distance of All weather loose surface road C641 from the junction in grid square 2413 to the junction in grid square 3121. Give your answer in km.   (2mks)

     (ii) What is the area of Kitale Municipality in km^2? (2mks)

(a) Draw a rectangle 6cm by 4cm to represent the area enclosed by easting 34 and 40 and Northing 24 and 28. On the rectangle show: (2mks)
(i) Saiwa swamp   (1mk)
(ii) Dry weather road   (1mk)
(iii) River Kipolet   (1mk)
(iv) Kipsoen Forest   (1mk)

(b) (i) Citing evidence, give <u>three</u> economic activities carried out in the area covered by the map.   (3mks)
     (ii) Describe the relief of the area covered by the map. (5mks)

7. (a) Give **three** processes through which wind erodes the earth surface. (3mks)

(b) Describe how the following features are formed:
  (i) Rock pedestal. (5mks)
 (ii) Barchan. (4mks)
  (iii) Mesa and Butes (4mks)

(c) Students carried out field study on desert land forms.
  (i) State **three** objectives of their study. (3mks)
  (ii) Give **two** methods they used to collect data. (2mks)
  (iii) State **four** significance of desert landforms to human activities. (4mks)

8. (a) The diagram **below** represents part of the earth affected by faulting. Name the sections marked **A**, **B**, **C** and **D**.
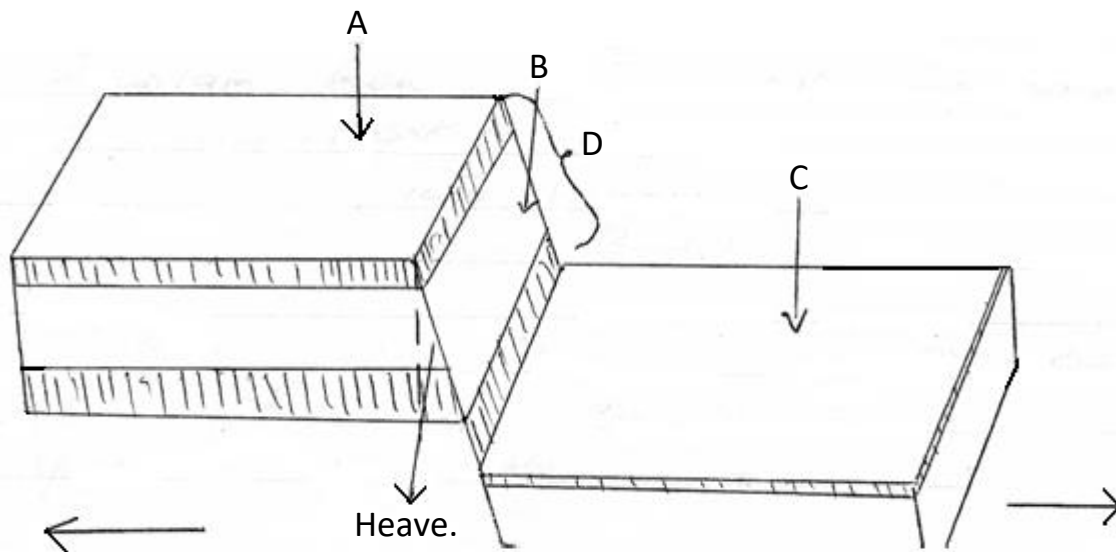
(b) (i) With aid of labeled diagrams describe how a Rift Valley is formed by compressional forces. (6mks)
  (ii) Name **four** features associated with Gregory Rift Valley. (4mks)

(c)   Name **three** Horst Mountains in East Africa.   (3mks)

(d)   Explain **four** effects of faulting to physical environment.
       (8mks)

9.   (a)   Differentiate between Mass Wasting and Mass Movement.
             (2mks)
      (b)   Explain **three** factors influencing Mass Wasting.   (6mks)
      (c)   (i)   State **five** causes of soil creep.   (5mks)
             (ii)   Explain how the following processes of mass wasting
                    occur.
                    (i)   Slumping   (3mks)
                    (ii)   Rock fall   (3mks)

      (d)Students are planning to carry out field study of an area affected
             by mass wasting.
             (i)   How did they prepare for the field study?   (3mks)
             (ii)   Identify **three** problems they might have encountered?
                    (3mks)

10.   (a)   The diagram **below** shows a local wind. Use it to answer
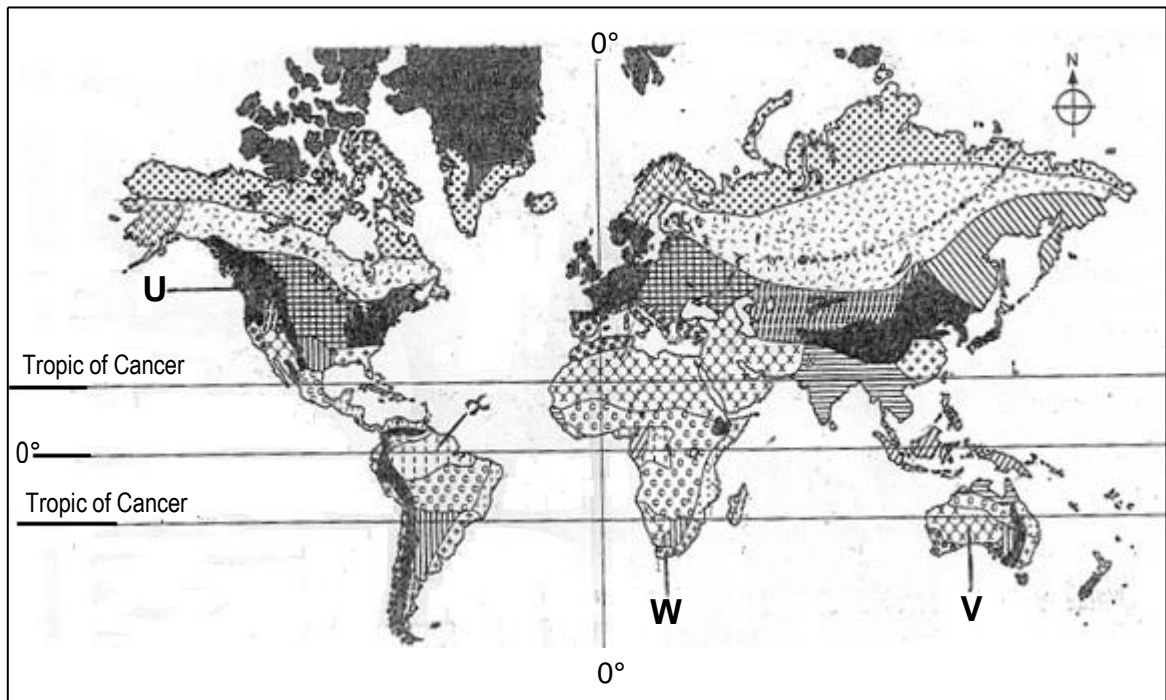questions that follow.

Descending cool air

Sea

Land
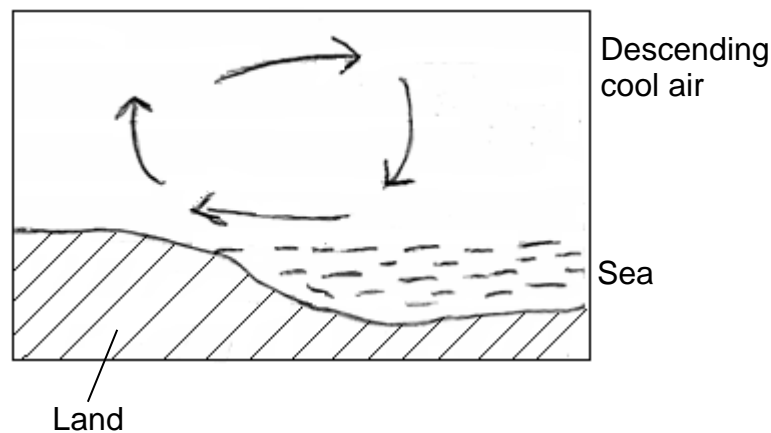
(i) Name the type of local wind. (1mk)

(ii) Explain how the breeze develops. (3mks)

(b) Describe the formation of relief rainfall. (6mks)

(c) World map showing climatic regions. Use it to answer questions that follow:

(i) Identify climatic regions marked **U**, **V** and **W**.(3mks)

(ii) Describe **three** characteristics of climate marked **X**. (6mks)

(d) (i) What is Micro climate? (2mks)

(ii) State **four** effects of global warming on human activities. (4mks)

PP1 PROJECTION NO. 42

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

(a) This paper has **two** Sections **A** and **B**.

(b) Answer all the questions in Section **A**.

(c) Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
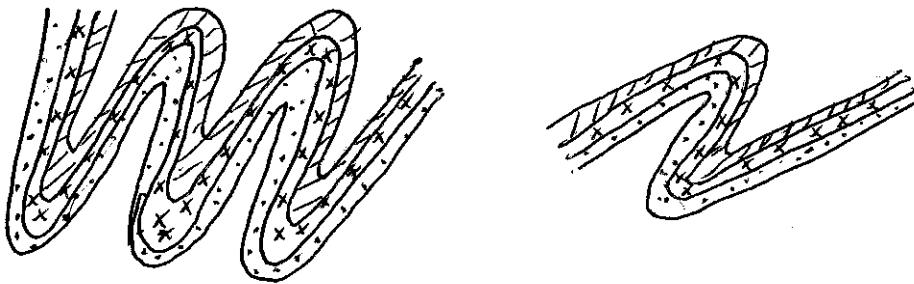
(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

| Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer All Questions

1. (a) Define Geography (2 marks)

   (b) Give two reasons to explain why the interior of the earth is hot (2 marks)

   (c) Distinguish between meteors and meteorites (2 marks)

2. (a) Identify the types of folds shown (2 marks)

   (b) State three negative effects of folding on human activities (3 marks)

3. (a) State two causes of soil creep (2 marks)

   (b) The diagram below shows rock creep. Name the parts marked P,Q,R (3 marks)
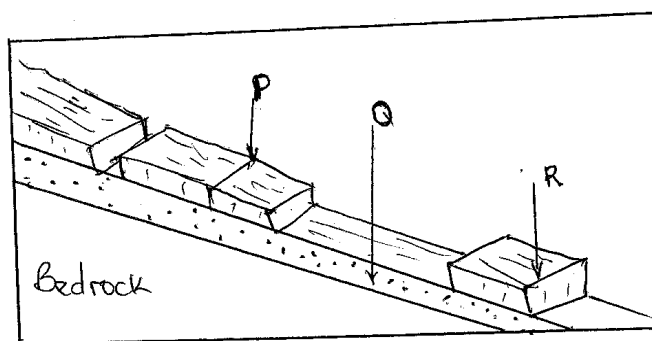
4. (a) Identify the features C, D, &E shown in the diagram
       (3 marks)
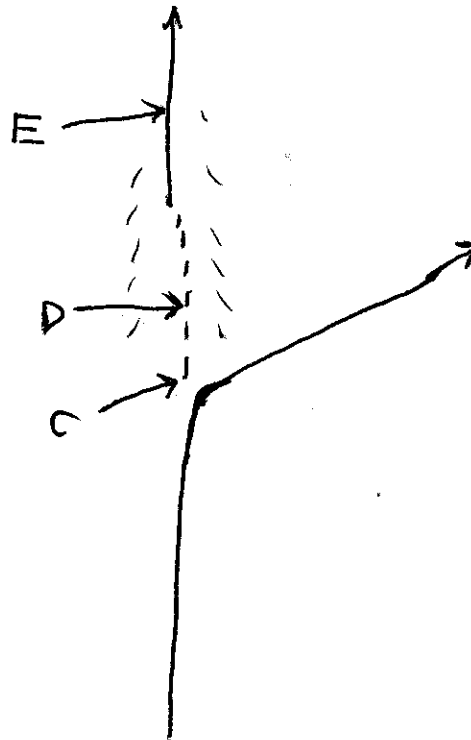
   (b) State two causes of river rejuvenation   (2 marks)

5. (a) State two physical factors that contribute to the development of Sahara Desert. (2 marks)

   (b) Draw a well labeled diagram to show a Zeugen.   (2 marks)

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

(a)(i) Give the bearing of the trigonometrical station secondary at grid 2823 from the water hole at grid 3127   (2 marks)

   (ii) Give the magnetic variation of the area covered by the map extract   (1 mark)

(b)   Name three types of settlement patterns found on the map extract   (3 marks)

(c)(i)   Draw a cross section from the grid reference 340280 to Kaipos trigonometrical station at grid square 3932.
        (Use a scale of 1cm rep. 40 m)   (2 marks)

        On your cross section, mark and label the following:

        (a) Dam   (1 mark)

        (b) River Saiwa   (1 mark)

        (c) Forest boundary   (1 mark)

   (ii) Calculate the gradient between the dam and the starting point   (2 marks)

(d) (i)   Explain 3 factors that favour the growing of wattle in the area covered by the map.   (6 marks)

    (ii)   Give two evidences showing why the area has a wet climate   (2 marks)

(e) Draw a rectangle 7.2 cm to 10 cm representing the a area West of Eastings 30 and South of
     Northing 20   (1 mark)
     On it mark and label the following
     (a) Kitale municipality   (1 mark)
     (b) All weather roads loose surface   (1 mark)
     (c) Koitobos river   (1 mark)

7. (a)(i)   Differentiate between vulcanicity & volcanicity.   (2 marks)

(ii)   Draw the map of Kenya.   (1 mark)
On it locate and name:
M-mau escarpment.   (1 mark)
O-lake Magadi   (1 mark)
Y – Yatta plateau   (1 mark)

(b) With the aid of a well labeled diagram describe how the following features are formed:
(i)   Lava plateau.   (5 marks)
(ii)   sill   (3 marks)

(c) (i)   Give two characteristics of the Gregory rift valley. (2 marks)

(ii)   You have been asked to carry out a field study on faulting in the Rift Valley, design a working schedule to use during the study.
        (3 marks)

(d)Explain three negative influences of vulcanicity and associated features on human activities in Kenya.   (6 marks)

8.(a) (i) Differentiate between a barrier reef and a fringing reef(2 marks)

(ii) Give three causes of oceans currents   (3 marks)

(b) The diagram below shows Coastal features. Use it to answer questions b (i).
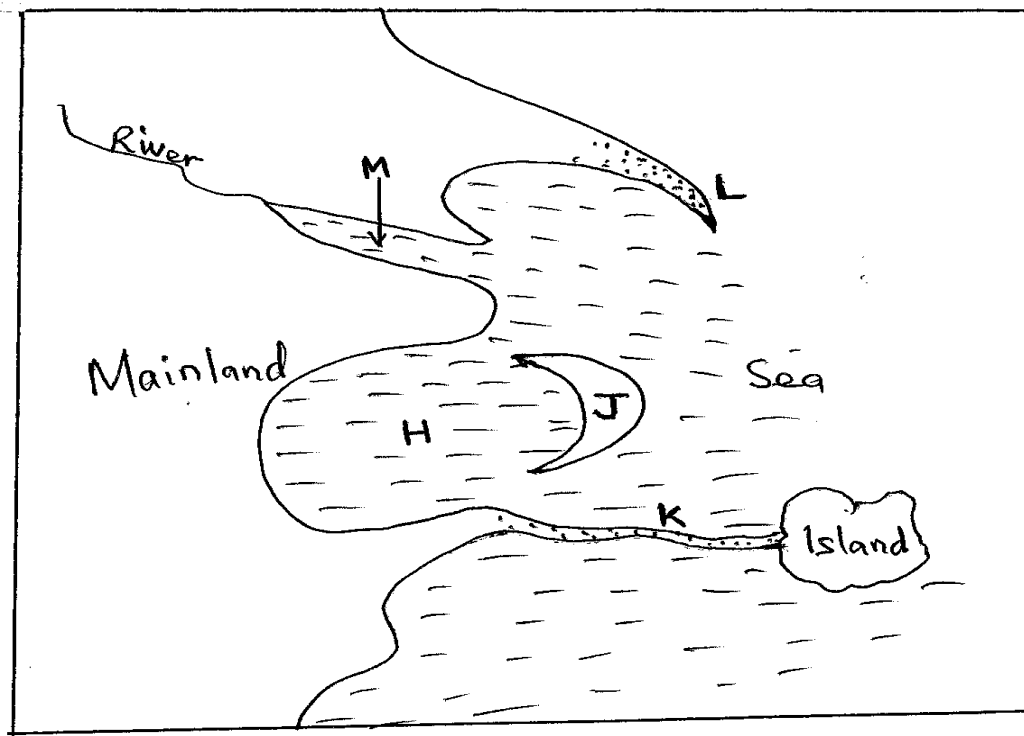
(i) Name the coastal features marked H,J,K,L   (4 marks)

(c) With the aid of diagrams describe how a wave – cut platform is formed   (6 marks)

(d) Explain how the following factors influence development of coasts

(i) Climate   (2 marks)

(ii) Gradient of the Coast   (2 marks)

(e) Your class intends to carry out a field study on the features along the coast of Kenya.
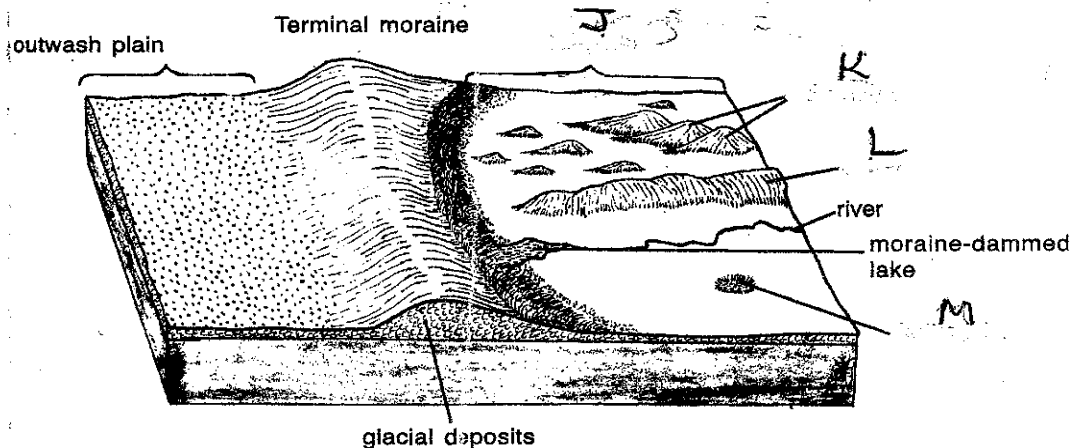
(i) Why would they need to carry out reconnaissance   (3 marks)

(ii) Give three disadvantages of using observation to collect data (3 marks)

9.(a)Distinguish between glacial till and fluvio-glacial deposits(2 marks)

(b) Explain <u>three</u> factors that determine the rate at which ice moves. (6 marks)

(c) The diagram below shows depositional features in lowlands

(i) Name the features marked J, K,L and M.   (4 marks)

(ii) Describe how the following features are formed:
   - moraine dammed lake   (4 marks)

   - outwash plain   (4 marks)

   (d) Students from Meru high school intend to carry out a field study on features of glaciations on Mt Kenya

   (i)   Identify two methods they will use to collect data.   (2 marks)

(ii)   State one negative effect they are likely to identify(1 marks)

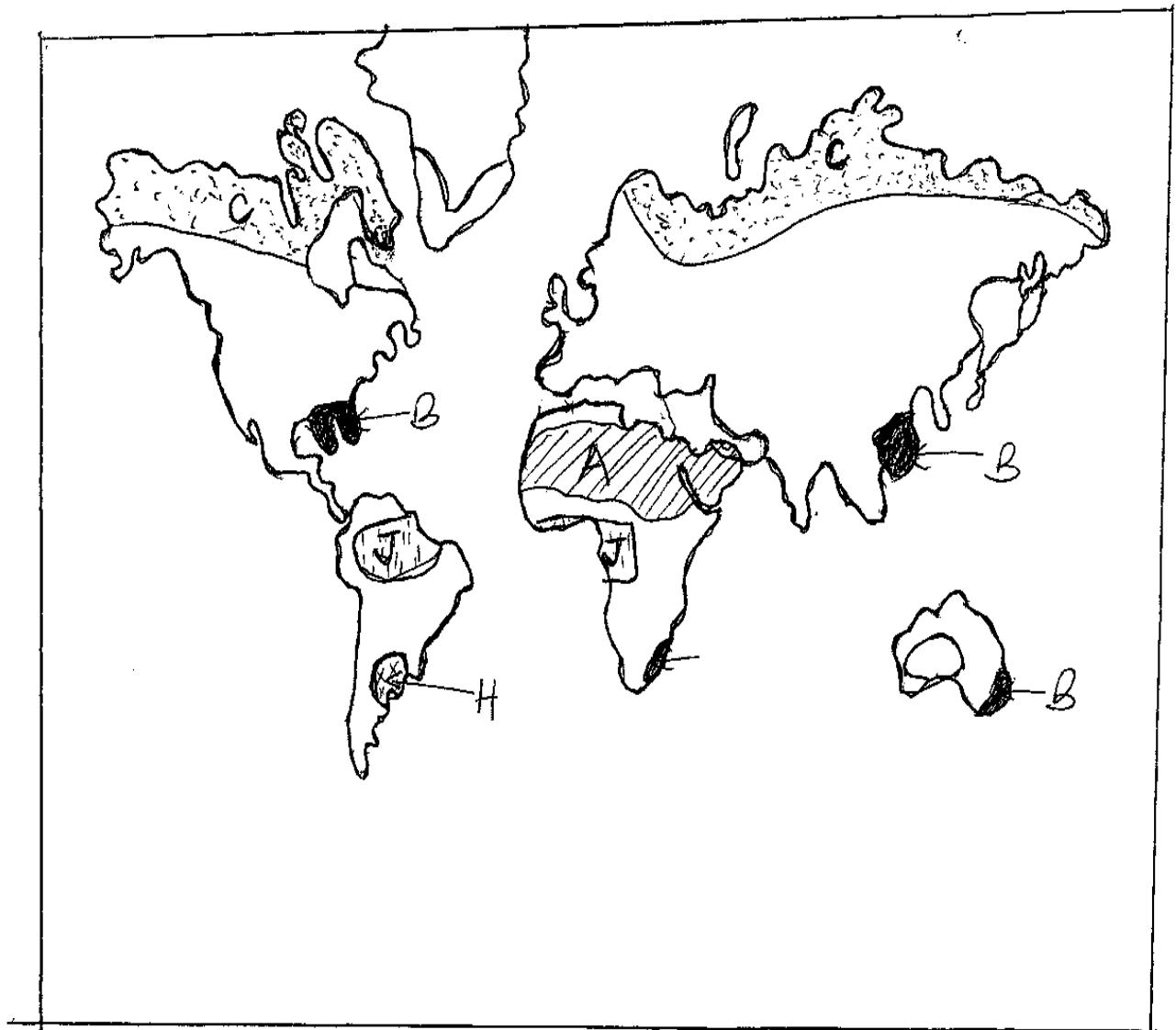(iii)   State two follow up activities they are likely to engage in (2 marks)

10. (a) (i)   State three characteristics of ITCZ   (3 marks)

   (ii)   Describe the following factors influence climate

       • configuration of the coastline   (2 marks)

       • Distance from the sea   (2 marks)

   (b) Study the world map provided and use it the answer the questions below.

(i)   Name the climatic regions A,B,C   (3 marks)

(ii)   Name the vegetation type marked H&J   (2 marks)

(iii)   Explain three ways in which coniferous forests have adapted
        to the climatic conditions   (6 marks)

  (c) You carried out a field study in an marginal area experiencing
      encroachment of desert conditions

(i)   State two objectives for your study.   (2 marks)

(ii)   How would you record your findings during the study?(2 marks)

(iii) Describe three findings on the causes of the encroachment(3 marks)

PP1 PROJECTION NO. 43

GEOGRAPHY

PAPER 1

TIME $2^3/_4$ HOURS

INSTRUCTIONS TO CANDIDATES:

(a)This paper has **two** Sections **A** and **B**.

(b)Answer all the questions in Section **A**.

(c)Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.

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FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A

*Answer **all** the questions in this section.*

1. (a) Name **two** navigable rivers in Africa. (2 marks)

   (b) State **three** reasons why river transport is less developed in Africa. (3 marks)

2. The diagram below shows a method of fishing. Use it to answer the questions that follow.
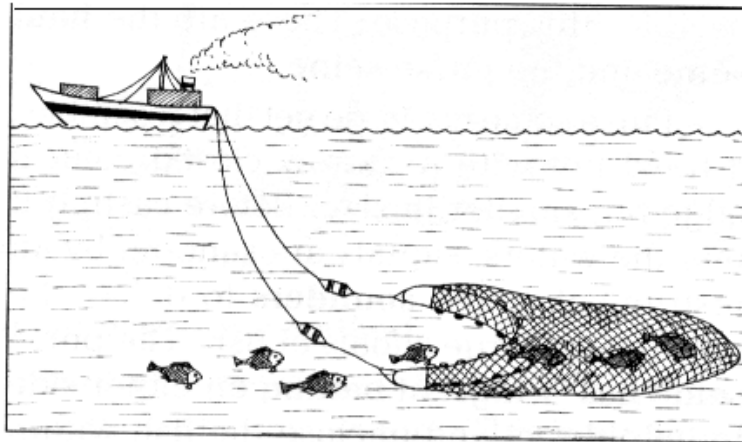
   (a) Identify the method of fishing shown in the diagram. (1 mark)

   (b) Describe how the method is used to catch fish. (4 marks)

3. (a) Name **two** areas where gold is mined in the Republic of South Africa. (2 marks)

(b)   State **three** contributions of gold mining to the economy of the Republic of South Africa. (3 marks)

4. (a)State **three** factors that have promoted the establishment of national parks in Kenya. (3 marks)

(b)Apart from establishment of game reserves and national parks, give **two** other methods of wildlife   conservation in Kenya.

(2 marks)

5. (a)Define the term forestry.   (1 mark)

(b)   Give**four**functions of forests.   (4 marks)

SECTION B

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

6. The table below shows the values of Kenya's imports in million shillings between the years 2005 – 2009. Study it and use it to answer question (a)

	2005	2006	2007	2008	2009
Crude Petroleum	45, 954	47, 005	45, 552	49, 081	46,197
Industrial Machinery	33, 516	35, 556	37, 137	41, 772	38,993
Road Motor Vehicles	24, 361	22,351	19, 753	21, 268	17,627
Pharmaceuticals	11, 607	15, 123	19, 359	13, 045	15, 789

(i) Using a vertical scale of 1cm to represent Kshs 5 billion, draw a comparative line graph to represent the above information.(8 marks)

(ii) Other than comparative line graphs, name **one** other statistical methods that can be used to represent the above data. (1 mark)

(a) Explain **three** measures that can be used to correct the unfavourable balance of trade in Kenya (6 marks)

(b) (i) Give **two** factors that promote internal trade in Kenya.(2marks)

(ii) State **three** problems facing internal trade in Kenya. (3 marks)

(c)(i) Name **two** trading blocs in Africa of which Kenya is a member. (2 marks)

(ii) State **three** benefits of trading blocs to the economies of African countries. (3 marks)

7. (a)(i) Define the following terms.

- A factory (1 mark)

- Industrialization (1 mark)

(ii) Give **three** reasons why the government of Kenya encourages industrialization in the country. (3 marks)

(b) (i) Name **two** products of cottage industry in Kenya (2 marks)

(ii) State **three** characteristics of the cottage industry in India

(3 marks)

(c)(i) Give **two** reasons why primary industries are located close to the raw materials. (2 marks)

(ii)Name **three** examples of secondary industries in Kenya.(3 marks)

(d)   The diagram below is a map of the Ruhr Industrial region of Germany. Study it and use it to answer the questions that follow.

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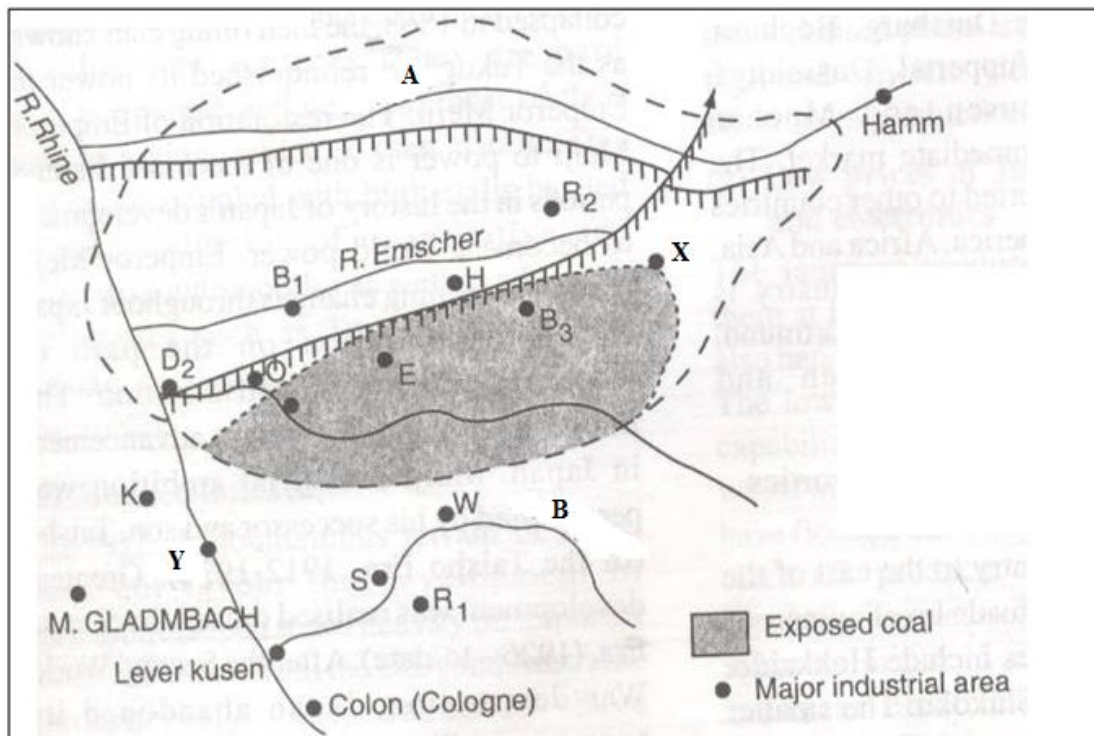
(i) Name the rivers labeled **A** and **B** (2 marks)

(ii) Name the industrial areas marked **X** and **Y** (2 marks)

(iii) Explain **three** factors that led to the development of Iron and Steel industries in the Ruhr region of Germany. (6 marks)

8. (a)(i) Define the term transhumance. (2 marks)

(ii) State **four** characteristics of nomadic pastoralism. (4 marks)

(b) (i) Name **three** dairy breeds kept in Kenya. (3 marks)

(ii) Explain **four** conditions favouring dairy farming in the Kenyan highlands. (8 marks)

(c)(i) State **four** limitations of beef farming in Kenya. (4 marks)

(ii) Give **four** similarities between beef farming in Kenya and Argentina. (4 marks)

9. (a)(i) Name **two** primary sources of population data other than census. (2 marks)

(ii) State **three**reasons why a country should conduct regular censuses. (3 marks)

(b) Explain how the following factors influence population distribution

(i) Climate   (3 marks)

(ii)   Industrialization   (2 marks)

(c)Figure below shows the age – sex pyramid of a given country. Use it to answer the questions   that follow.
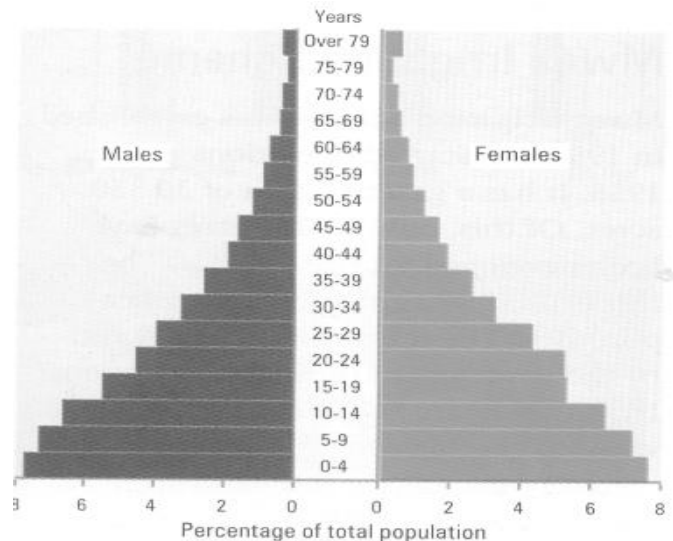

(i)   State **four** characteristics of the population represented in the age – sex pyramid.   (4 marks)

(ii)   What type of country is likely to be associated with the above age – sex pyramid?   (1 mark)

(iii) State **two** advantages of using age – sex pyramids in representing population data (2 marks)

(d)   Explain **four** problems of overpopulation in developing countries.   (8 marks)

10. (a)(i) Define the term land reclamation   .   (1 mark)

(ii) State **four** benefits that have resulted from the reclamation of Yala swamp.   (4 marks)

(b)   The diagram below shows the distribution of irrigation schemes in Kenya. Use it to answer the questions that follow.
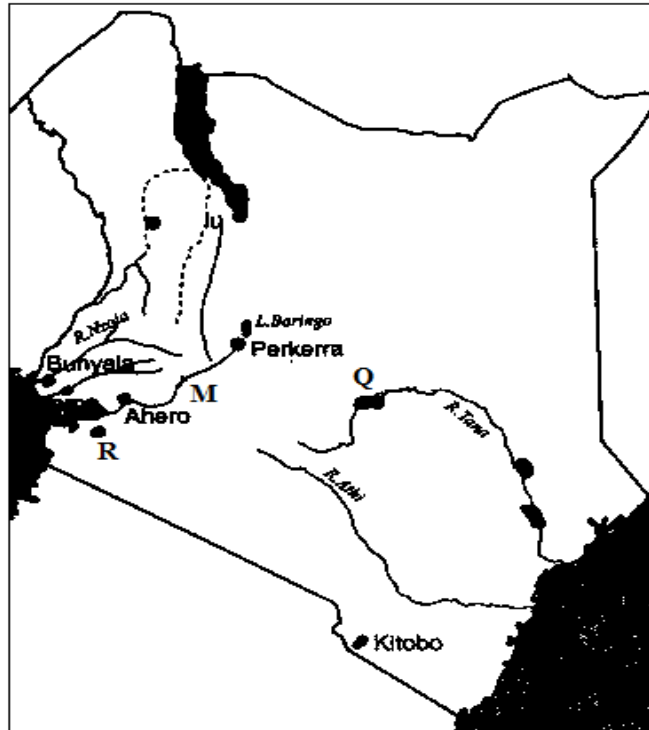
(i)   Name the irrigation schemes labeled **Q** and **R**.   (2marks)

(ii) Name the river marked **M**   (1 mark)

(iii) Explain **four**physical factors that favoured the establishment Perkerra Irrigation Scheme   (8 marks)

(c)State **four** problems facing irrigation farming in Kenya. (4 marks)

(d)   (i)   What is a polder?   (1 mark)

(ii) Give **two** differences between land reclamation in Kenya and Netherlands   (4 marks)

PP1 PROJECTION NO. 44

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

<u>INSTRUCTIONS TO CANDIDATES:</u>

(a)This paper has **two** Sections **A** and **B**.

(b)Answer all the questions in Section **A**.

(c)Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.

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<u>FOR EXAMINERS USE ONLY</u>

Question	Maximum score	Candidate's score
1-	80	

Section A (25 Marks)

Answer all questions in this section

1. (a) Identify **two** types of environment. (2mks)

   (b) Mention **two** major areas covered under physical Geography. (2mks)

2. (a) State any **two** reasons why the interior of the earth is very hot. (2mks)

   (b) State **two** proofs that the earth is spherical. (2mks)

3. (a) What is a line of longitude. (1mk)

   (b) What is the local time at Alexandria 30^0E when the local time at Malindi 40^0E is 12.00 noon? (2mks)

4. (a) Give **three** reasons why it is necessary to study the plate tectonic theory. (3mks)

   (b) Name **two** types of plate tectonic boundaries. (2mks)

5. The diagram below shows some features in a limestone area. Use it to answer question (a).
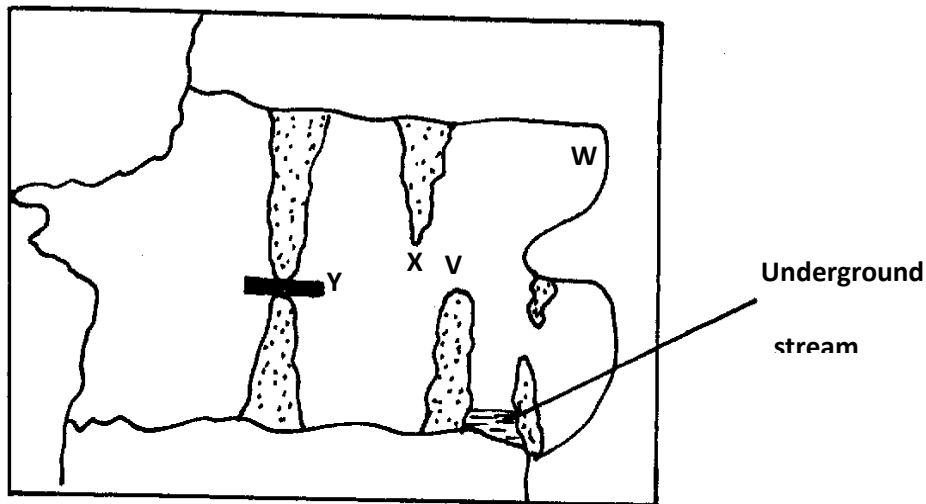
(a) Name the features marked **XVW.**   (3mks)

(b) What is an artesian basin.   (2mks)

(c) State **four** factors influencing the development of a karts . . .
    .   scenery.   (4mks)

Section B

Answer question 6 compulsory and any other two from the remaining questions

6.   Study the map of Kitale 1: 50,000 (sheet 7513). Provided and answer the following questions.

(a)(i) Identify **one** human made feature found at the grid 360179.(1mk)

   (ii)State **two** methods used to show relief in the area covered by the map.   (2mks)

   (iii)   Calculate the magnetic declination as at the time the map was published.   (2mks)

(b)(i) Calculate the area of Kitale Municipality   (2mks)

   (ii)Measure the distance of the dry weather road C 637 from junction 254285 to 311211. Give your answer in kilometers.   (2mks)

   (c)   (i)   Draw a rectangle measuring 10cm by 12cm between Easting 24 and 29 and Northing   12 and 18. (1mk)

        (ii)   On the rectangular, mark and name the following.(5mks)

- Seasonal swamp.
- River Koitobos.
- Road C 641.
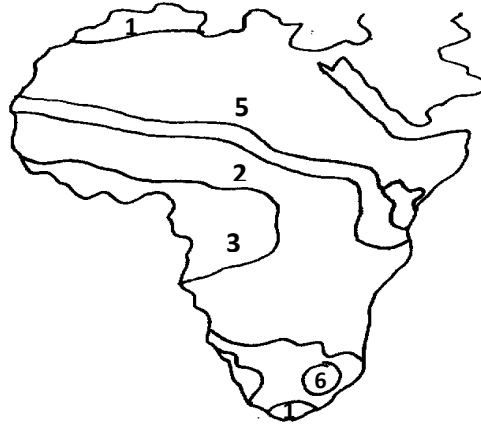- Sandrums' bridge.

   (iii) Describe how relief has influenced settlement in the area covered by the map.   (4mks)

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

   (d)   Citing evidence from the map.   Identify **Two** economic activities found in the area covered by the map.   (2mks)

7. (a) Study the map of Africa showing the main climatic regions marked **1,2,3,5** and **6.**

(i) Name the climatic regions labelled **1,2** and **5**
(3mks)

(ii) State **five** characteristics of the climatic regions labelled **5.**   (5mks)

(iii) Name **three** factors that influence the climatic region labelled **1** (3mks)

(b) Describe **six** vegetation adaptations in Sahara and Namib (6mks)

(c) (i) Name **three** water towers in Kenya   (3mks)

(ii) Give **five** measures being taken to conserve forests in   .

.   Kenya   (5mks)

8.(a) Name;

  (i)   **Two** types of faults   (2mks)

  (ii) **Three** features resulting from faulting (2mks)

(b)   (i)   List **three** Horst mountains found in East Africa   (3mks)

  (ii) With aid of a well labelled diagram, describe how a horst mountain is formed (6mks)

(c)   (i)   State **three** causes of vulcanicity   (3mks)

  (ii) Give **two** characteristics of a shield volcano   (2mks)

 (d)   Explain **three** ways through which faulting is of economic importance to man   (6mks)

9.(a)(i)Distinguish between Aridity and desertification (2mks)

  (ii) Identify **two** types of deserts sufaces   (2mks)

  (iii) Give **two** reasons why wind action is most active in hot deserts than in cold deserts.   (4mks)

  (b)   Explain the following process of wind erosion

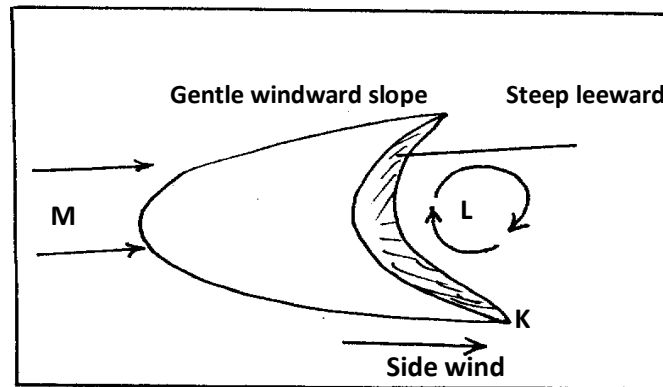   (i)   Abrasion   (2mks)

    (ii) Deflation   (2mks)

    (iii) Attrition   (2mks)

(c)   (i)   State **two** factors that influence the transportation of material

.   by wind in deserts (2mks)

(ii) The diagram below shows some features of wind deposition. Identify K,L and M (3mks)

(d) Your class is planning to carry out a field study of a desert environment.

(i) State **three** ways of preparing for the field study. (3mks)

(ii) Give **three** information that would be collected through observation in arid area   (3mks)

10.   (a)   (i)   Describe how ice is formed on a high mountain. (3mks)

(ii)   A part from valley glacier, name **two** other types of ice masses found on mountains in East Africa   (2mks)

(b)   Describe the distinctive characteristics of the following features resulting from glacial erosion

(i)   A Corrie   (3mks)

     (ii)   A pyramidal peak   (3mks)

     (iii) Fiords   (3mks)

(c) Explain **three** importance of glaciations to both physical and human environment   (6mks)

(d)(i) Describe the process through which crag and tail is formed (4mks)

  (ii) You are supposed to carry out a field study in a glaciated lowland area.

(a) Mention **three** depositional features you are likely to identify during the field study (3mks)

`(b)   State **two** methods you are likely to use in recording the information obtained during the field study   (2mks)

PP1 PROJECTION NO. 45

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

(a) This paper has **two** Sections **A** and **B**.

(b) Answer all the questions in Section **A**.

(c) Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
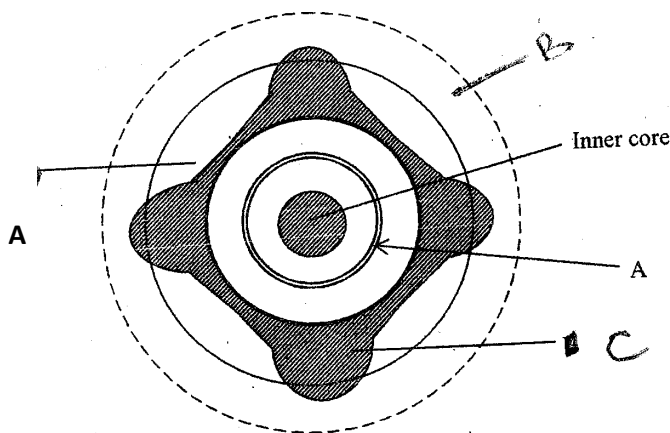
(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer all questions in this section.

1. a) The diagram below shows the internal structure of the earth.

    Name the layers marked **A, B, C**   (3mks)

    b) Explain **two** ways to prove that the earth is spherical. (2mks)

2. a) Explain how the following can be obtained;

   i) Annual rainfall total.   (1mk)

   ii) Mean daily temperature.   (1mk)

   iii) Mean monthly temperature.   (1mk)

b) The time at station **C** on longitude 145° East is 1pm. What is the time at station **B** 30° East?   (2mks)

3. a) How does land breeze occur?   (2mks)

    b) State **three** effects of cold ocean currentS on the adjacent land.
       (3mks)

4. a) What is natural vegetation?   (2mks)

    b) State **three** characteristics of Mediterranean type of vegetation.

5.a) State **three** conditions necessary for the development of a karst
     scenery.   (3mks)

   b) Give **two** reasons why there are a few settlements in karst
      landscape.   (2mks)

SECTION B (75 MARKS)

Answer question 6 and any other two questions from this section

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

a).i) What is the height of the top of **kaipos hill**?   (1mk)

 ii) Name the planted vegetation in the area adjacent to Kitale
    municipality.   (1mk)

 iii) What is the area of part of **west Pokot** district shown on the map?
    Give your answer in square kilometers.   (2mks)

 iv) Calculate the bearing of the Air photo principal point (grid square
    2329) from the air photo principal point (Grid square 2931). (2mks)

 v) Give the latitude and longitude of the south west corner of the
    map extract. (2mks)

b).i) Identify **three** forms of land transport found to the north of
Northing 28 and west of
    Easting 30.   (3mks)

    ii) Citing evidence from the map, state **three** economic activities
carried out in the area covered by the map.   (3mks)

 c) Describe the distribution of settlement in the area covered by the
map.   (6mks)

 d) Describe the drainage of the area covered by the map.   (5mks)

7. a).i) Define the term glaciation. (2mks)

ii) Name **three** types of glaciers. (3mks)

b) Describe how the following features found in upland glaciated landscape are formed:

i) U-shaped valley. (5mks)

ii) Pyramidal peak. (5mks)

c) Explain **three** significance of upland glaciated features to human
activities. (6mks)

d) Suppose you were to carry out a field study of glaciated lowland:

i) State **two** advantages of using oral interview to collect
information during the field study. (2mks)

ii) Name **two** features found in glaciated lowland that you are
likely to study. (2mks)

8. *Study the climatic data in the table below and answer questions that follow.*

Month	J	F	M	A	M	J	J	A	S	O	N	D
Temperature in ^0C	23	23	23	21	18	17	16	17	18	20	21	22
Rainfall in mm	109	121	129	76	50	33	27	38	71	109	121	119

a) i) On the graph paper, draw a bar graph to represent the rainfall figures (use a vertical scale of 1cm to represent 10mm)   (5mks)

ii) Describe the rainfall pattern of the station.   (4mks)

iii) Calculate the average monthly temperature for the station. (Show your calculation)   (2mks)

b) Explain how the following factors influence the climate of a region.

i) Latitude.   (2mks)

ii) Aspect.   (2mks)

iii) Ocean currents.   (2mks)

c) Explain **two** effects of climate change on the physical environment.   (4mks)

d) Explain **two** problems associated with convectional rainfall in the lake region of Kenya.   (4mks)

9.a).i) Give **one** type of desert surface. (1mk)

ii) State **three** reasons why wind action is more effective in hot
deserts. (3mks)

b) With the aid of a well labelled diagram, describe the formation of
the following desert landforms.

i) Deflation hollows. (5mks)

ii) Barchans. (5mks)
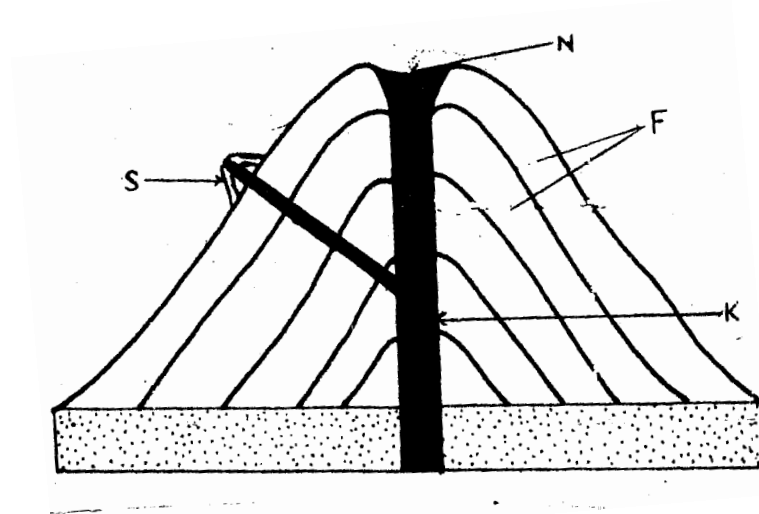
c).i) what is aridity? (1mk)

ii) Explain **three** physical causes of aridity and desertification. (6mks)

d) State **four** measures taken by the government of Kenya to curb aridity
and desertification. (4mks)

10.a) i) Define the term vulcanicity. (1mk)

ii) Name **two** features resulting from intrusive volcanic activity.
(2mks)

b) Study the diagram below and answer the following questions;

i) Name the parts labelled **F, K, N** and **S**.   (4mks)

ii) Describe how the volcano is formed.   (4mks)

c). Explain **four** economic importance of vulcanicity to human
        activities.   (4mks)

d) Suppose your class carried out a field study on vulcanicity,

i) State **three** objectives of your study.   (3mks)

ii) State **three** follow up activities that you undertook.   (3mks)

PP1 PROJECTION NO. 46

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

(a)This paper has **two** Sections **A** and **B**.

(b)Answer all the questions in Section **A**.

(c)Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.

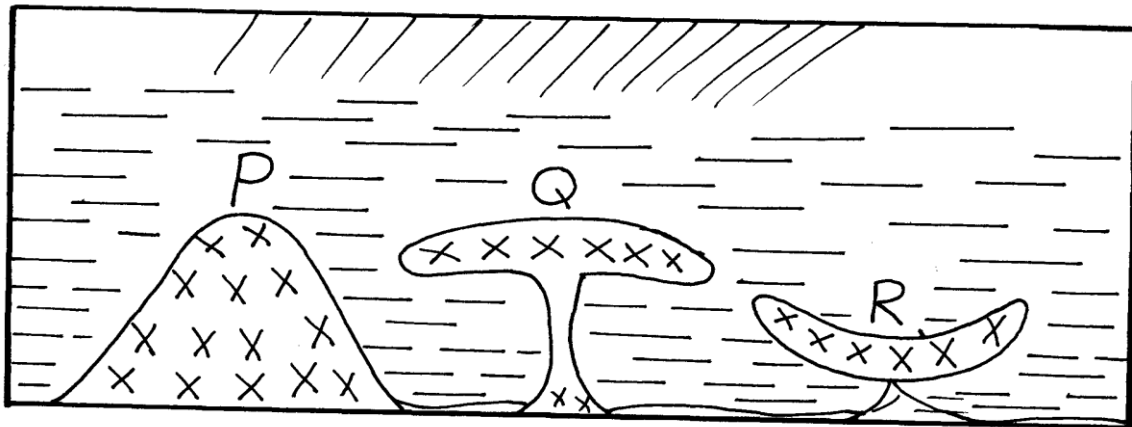(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A (25 MARKS)

Answer all the questions in this section .

1. (a) Name **three** types of coral reefs. (3 mks)

(b) What are the benefits of coral reefs in the areas they have developed? (2 mks)

2. (a) The diagram below represents features of intrusive vulcanicity.
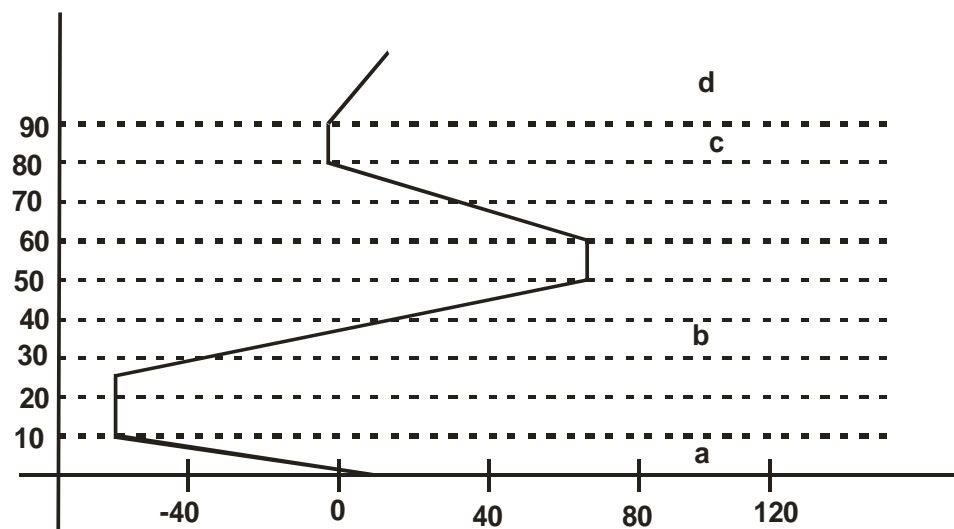
Name the features marked **P,Q** and **R** (3mks)

(b) How is a caldera formed? (2mks)

3. (a) Name the **three** main layers of the atmosphere from the earth's surface upwards. (3mks)

(b) What is temperature inversion? (2mks)

4. (a) Highlight any **three** factors that necessitate the occurrence of an artesian basin.   (3mks)

    (b) Apart from lakes rivers and sea, name any other **two** sources of underground water.   (2mks)

5.   (a) Below is a diagram showing the structure of the atmosphere

    (a)Name the parts labeled **a**, **b**, and **d**.   (3 mks)

    (b) State the reasons for the behavior of graph at zones **b** and **c**.
                                        (2 mks)

SECTION B (75 MARKS)

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

6.   (a) Study the map of Nkubu provided and answer the questions that follow.
       (i) Give the six figure grid reference of the road junction at Nkubu shopping centre.   (1 mk)
       (ii) What is the approximate height of Rurie swamp from the North East of the map?   (1 mk)
       (iii) What is the magnetic declination at the time the map was being drawn?   (1mk)

(b)(i) Calculate the bearing of the Air photo principal point at Kaguma Grid square 4698 from the trigonometrical station (Grid square 5294) North of Thingithu River.   (2 mks)
       (ii) With evidence from the map identify **three** economic activities that the local people of Nkubu engage in.   (6 mks)

(c) (i) Describe the relief of the area covered by the map. (5 mks)
       (ii) Explain **three** factors influencing settlement in the area covered by the map.   (6mks)

(d) (i) Name the adjoining map extract to the East of Nkubu.(1 mk)
       (ii) Calculate the area covered by the forest to the West of the map.   (2 mks)

7.   (a) (i) Define wind abrasion.   (2mks)

       (ii) Name **two** processes of wind transportation. (2 mks)

(b) Give **one** difference between a rock pedestal and a mushroom block.
(2 mks)

(c) (i) Explain a factor that makes wind an effective agent of erosion in
.   arid areas.   (2mks)

   (ii) Give **three** characteristics of barchans.   (3mks)

(d) Using well illustrated diagrams, explain how Mesas and Buttes   .   .
.   form.   (8mks)

(e) You are to carry out a field study in the arid north of Kenya:

   (i) Mention **three** preparations you would make before the study.
           (3mks)

   (ii)Mention **three** problems you are likely to face during the field
       study.   (3mks)

8.   (a) (i) Define natural vegetation   (1mk)

           (ii) State **four** characteristics of national vegetation found in
                tropical rain forests   (4mks)

       (b) Explain **four** ways in which vegetation found in arid areas
           adapts to environmental conditions of the region   (8mks)

(c) Write the names of the grasslands found in the following areas
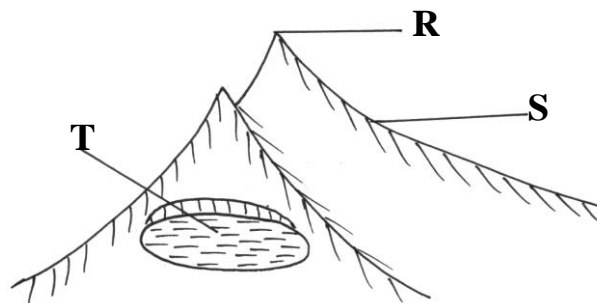(3mks)

(i) East Africa

(ii)   Canada

(iii) Argentina

(d) (i) Give **two** reasons why Tundra region has scanty vegetation
(2mks)

(ii)State **two** topographical factors that influence vegetation
distribution   (2mks)

(e) State **five** economic importance of vegetation   (5mks)

9.   (a) The diagram below shows a glaciated upland area.

(i) Name the features marked **R, S** and **T.**   (3mks)

(ii) Describe the distinctive characteristics of a fiord. (2mks)

(b)   With the aid of well labelled diagrams, describe how the following features are formed:-

   (i)   Cirque   (6mks)

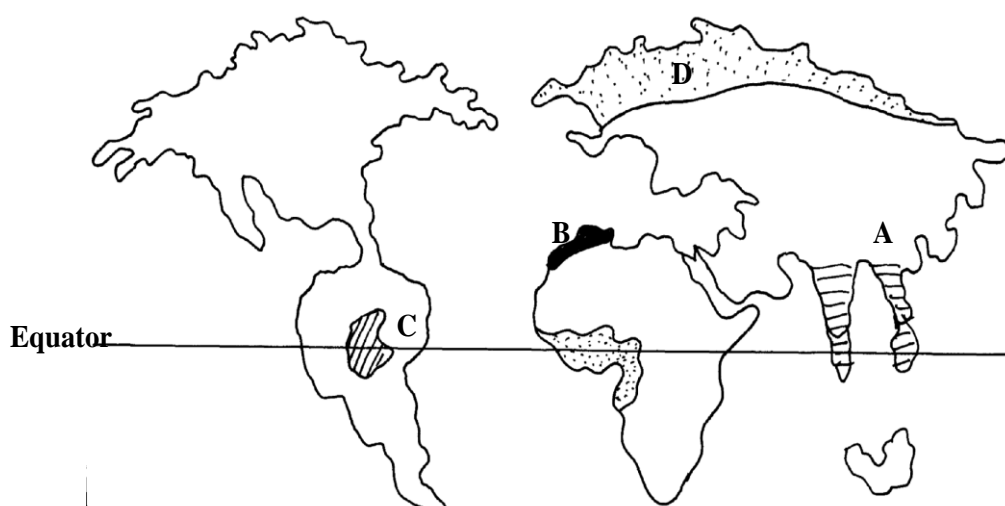   (ii) A hanging valley   (4mks)

(c) Explain **two** factors that may lead to glacial erosion in upland areas.   (4mks)

(d) Suppose you were to carry out a field study on aglaciated upland.

   (i) Name **two** types of moraine you are likely to identify.
        (2mks)

   (ii) Give **four** reasons why you would need the map of the area.
        (4mks)

10. The diagram below shows the world distribution of climate types .Use it to answer questions (a)(i)and(ii)

(a) (i) Name the climatic Regions marked **A,B** and **D.**   (4mks)

(ii) State any **four** characteristics of the climate marked **C** (4mks)

(b) (i)   Identify any **three** types of cold climates.   (3mks)

(ii) Briefly explain microclimate.   (4mks)

(c) (i) What is climate change?   (2mks)

(ii) Study the table below and use it to answer questions (a), (b) and (c)

Station Y

Months	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temperature (oC)	28	28	27	26	23	21	21	21	23	26	26	27
Rainfall (mm)	277	213	256	107	56	33	31	28	20	132	135	234

(a)   Calculate the mean annual temperature for the station.(2mks)

(b)   What is the mean annual rainfall.   (2mks)

(c)   State any **one** characteristics of the type of climate in the station.   (2mks)

(d)(i) Explain any **two** causes of global warming.   (4mks)

(ii) Name any **one** greenhouse gases.   (1mk)

PP1 PROJECTION NO. 47

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

(a) This paper has **two** Sections **A** and **B**.

(b) Answer all the questions in Section **A**.

(c) Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.

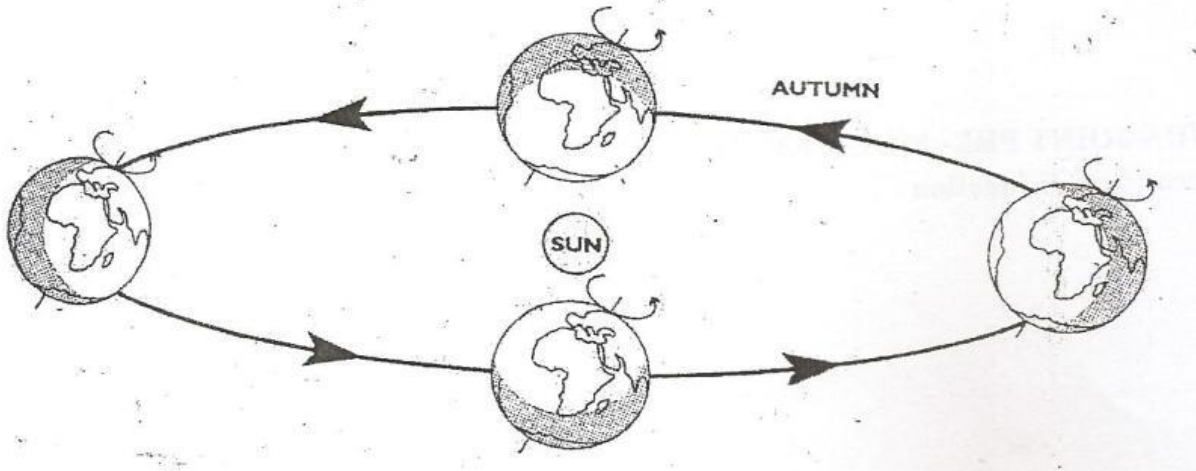(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A
Answer ALL the questions in this section

1   (a)   Name and describe two types of environment   (2 marks)

    (b)   The diagram below shows a movement of the earth

    (i)   Identify the movement   (1 mark)
    (ii)
    (iii) State two effects of the above movement   (2 marks)

2.   (a)   State two effects of aridity and desertification   (2 marks)

     (b)   Give three indicators of climate change.   (3 marks)

3.   (a)   (i)   Define the term 'rock'   (1 mark)

           (ii)   Name two examples of hypabyssal rocks   (2 marks)

     (b)   State two characteristics of minerals   (2 marks)

4. (a) Name two denudation processes   (2 marks)

    (b) State three factors that influence movement of materials on slopes (2 marks)

5.(a) Give three components of soil   (3 marks)

(b)State two factors influencing development of soil catena   (2 marks)

SECTION B

Answer question 6 and any other two questions from this section

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

    (a)(i) What is the title of the map extract? (1 mark)
       (ii)Give the name of the map extract bordering Karatina to the east   (1 mark)

    (b) (i)Name two human features in grid square 0346. (2 marks)

         (ii) What is the bearing of the Air photo principal point in grid square 9452 (13A/13) from the trigonometric station in grid square 9552 (121T7)   (2 marks)

    (c)Calculate the area of the natural forest in Kirinyaga District
         (2 marks)

    (d) (i)   Using a scale of 1cm to represent 20 meters, draw an accurate cross section from   grid square 850570 to grid square 910570.   (3 marks)

         (ii)On the cross section mark and name;
         - Forest   (1 mark)
         - River   (1 mark)
          (iii)Determine indivisibility between the two end points(1 mark)
    (e)Describe the drainage of the area in the map extract   (5 marks)
    (f) Students of a school at Ragati went for a field study in Karatina Township.
   (i)   Name two types of settlement patterns they may have identified in the town.   (2 marks)
         (ii) State four solutions to problems they may have encountered during the field study.   (4 marks)

7.(a)(i)   List two effects of horizontal earth movements(2 marks)

(ii)   Give three causes of earth movements.   (3 marks

(b)Name and describe three types of plate tectonic boundaries.(6 marks)
(c)   (i)   The diagram below shows a type of fold.
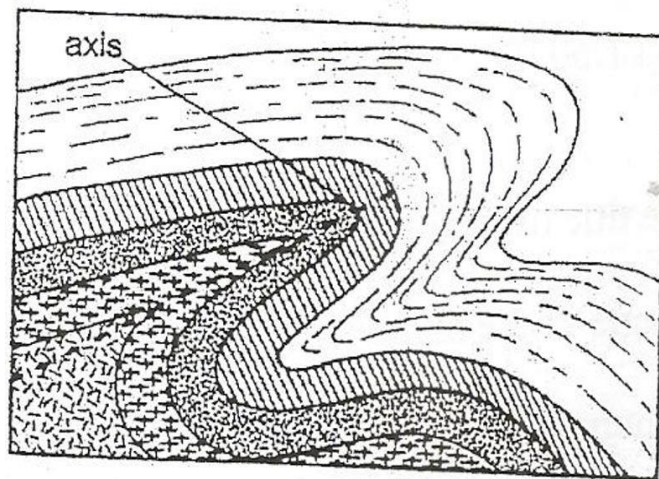
Identify the type of fold.   (1 mark)

(iv)   Name two other types of folds   (2 marks)

(d)   With the aid of well labeled diagrams, explain the formation of fold mountains.   (7 marks)

(e)   State four significance of folding to the physical and human environments.   (4 marks)

8. (a) (i) What is a lake? (1 mark)
(ii) List two sources of lake water (2 marks)

(b)(i) Name two fresh water lakes in the Rift valley region of Kenya

. (2 marks)

(ii) State four reasons why some lakes are saline (4 marks)

(c) Giving an example in each case, describe the formation of;
(i) Lake formed due to faulting (4 marks)

(ii) Crater lakes (4 marks)

(d) Explain four positive influence of lakes on human activities
(8 marks)

9. (a)(i)Give three sources of underground water (3 marks)

(ii)State three factors that influence the existence of underground
. water. (3 marks)

(b) The diagram below shows zones of ground water.
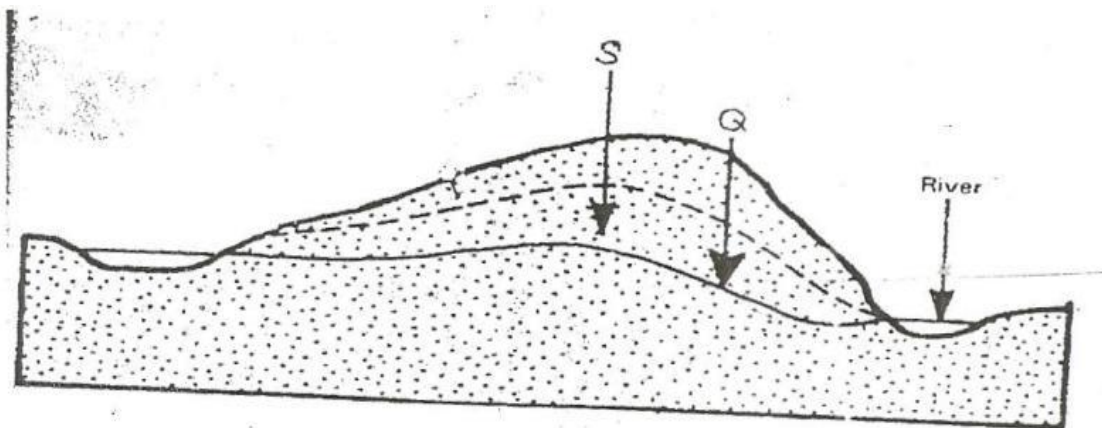
(i)   Identify the parts labeled Q and S.   (2 marks)

(ii)   State three ways through which springs form (3 marks)

(c)   State four factors that influence the development of Karst Scenery

(4 marks)

(d)   (i)   Name two surface features in limestone regions   (2 marks)

(ii)   Describe the formation of a stalagmite   (4 marks)

(e)   Explain two ways through which limestone landscapes

influence human activities.   (4 marks)

10.(a)(i)Name two types of river erosion   (2 marks)

(ii)State three factors influencing the rate of river erosion(3 marks)

(b)Name and describe three was by which a river transports its load

(6 marks)

(c)(i)Apart from deltas, give two river depositional features(2marks)

(ii) Giving an example from Kenya, describe the formation of   .

.   arcuate delta.   (3 marks)

(d)   Describe the formation of the following river patterns;

(i)   Dendritic pattern   (3 marks)

(ii)   Centripetal pattern   (3 marks)

(e)   State three positive significance of rivers   (3 marks)

PP1 PROJECTION NO. 48

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

(a)This paper has **two** Sections **A** and **B**.

(b)Answer all the questions in Section **A**.

(c)Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.

(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A (25 MARKS)

Answer all the questions in this section .

1.(a) Name **three** types of coral reefs.   (3 mks)

  (b) What are the benefits of coral reefs in the areas they have developed?   (2 mks)

2. (a)The diagram below represents features of intrusive vulcanicity.

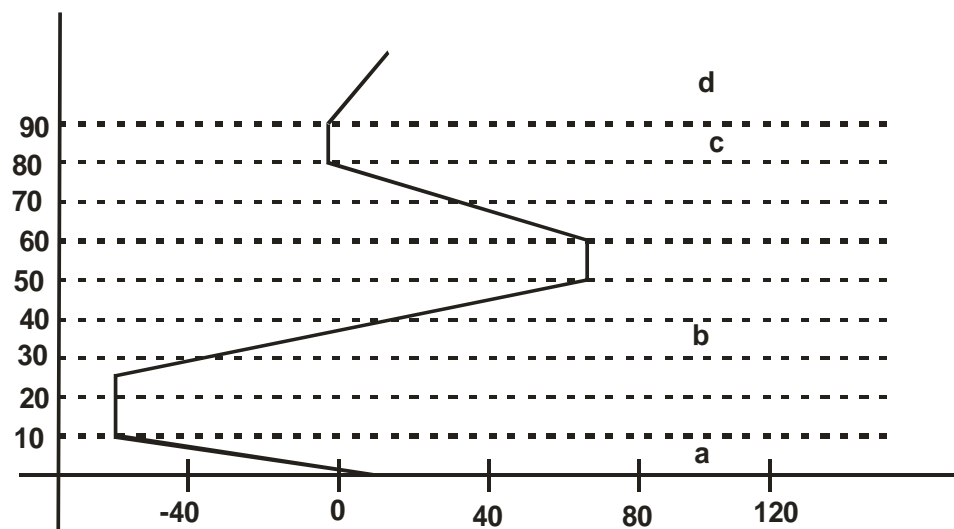   Name the features marked **P,Q** and **R**   (3mks)

  (b) How is a caldera formed?   (2mks)

3.   (a)   Name the **three** main layers of the atmosphere from the earth's surface upwards.   (3mks)

    (b)   What is temperature inversion?   (2mks)

4. (a) Highlight any **three** factors that necessitate the occurrence of an artesian basin.   (3mks)

    (b) Apart from lakes rivers and sea, name any other **two** sources of underground water.   (2mks)

5.   (a) Below is a diagram showing the structure of the atmosphere

    (c)Name the parts labeled **a**, **b**, and **d**.   (3 mks)

    (d) State the reasons for the behavior of graph at zones **b** and **c**.
                                   (2 mks)

SECTION B (75 MARKS)

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

6.(a) Study the map of Nkubu provided and answer the questions that follow.

   (i) Give the six figure grid reference of the road junction at Nkubu shopping centre.   (1 mk)

   (ii) What is the approximate height of Rurie swamp from the North East of the map?   (1 mk)

   (iii) What is the magnetic declination at the time the map was being drawn?   (1mk)

(b)   (i)   Calculate the bearing of the Air photo principal point at Kaguma Grid square 4698 from the

            trigonometrical station (Grid square 5294) North of Thingithu River.   (2 mks)

   (ii) With evidence from the map identify **three** economic activities that the local people of Nkubu engage in.   (6 mks)

(c) (i)   Describe the relief of the area covered by the map.   (5 mks)

   (ii) Explain **three** factors influencing settlement in the area covered .
.   by the map.   (6mks)

(d) (i) Name the adjoining map extract to the East of Nkubu.   (1 mk)

   (ii) Calculate the area covered by the forest to the West of the map.   (2 mks)

7. (a) (i) Define wind abrasion. (2mks)

(ii) Name **two** processes of wind transportation. (2 mks)

(b) Give **one** difference between a rock pedestal and a mushroom block. (2 mks)

(c) (i) Explain a factor that makes wind an effective agent of erosion in arid areas. (2mks)

(ii) Give **three** characteristics of barchans. (3mks)

(d) Using well illustrated diagrams, explain how Mesas and Buttes form. (8mks)

(e) You are to carry out a field study in the arid north of Kenya:

(i) Mention **three** preparations you would make before the study. (3mks)

(ii)Mention **three** problems you are likely to face during the field study. (3mks)

8. (a) (i) Define natural vegetation (1mk)

(ii) State **four** characteristics of national vegetation found in tropical rain forests (4mks)

(b) Explain **four** ways in which vegetation found in arid areas adapts to environmental conditions of the region (8mks)

(c) Write the names of the grasslands found in the following areas

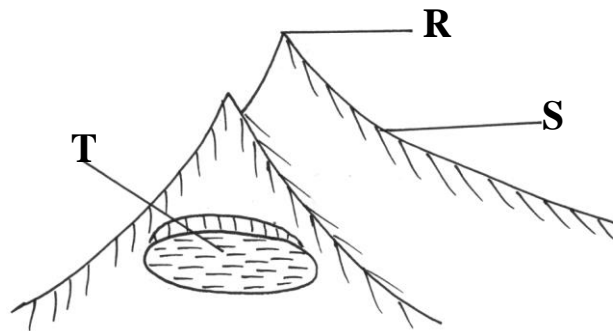(3mks)

(i) East Africa

(ii)   Canada

(iii) Argentina

(d) (i) Give **two** reasons why Tundra region has scanty vegetation
(2mks)

(ii)State **two** topographical factors that influence vegetation
distribution   (2mks)

(e) State **five** economic importance of vegetation   (5mks)

9.   (a) The diagram below shows a glaciated upland area.

(i) Name the features marked **R, S** and **T.**   (3mks)

(ii) Describe the distinctive characteristics of a fiord. (2mks)

(b)   With the aid of well labelled diagrams, describe how the following features are formed:-

(i)   Cirque   (6mks)

(ii) A hanging valley   (4mks)
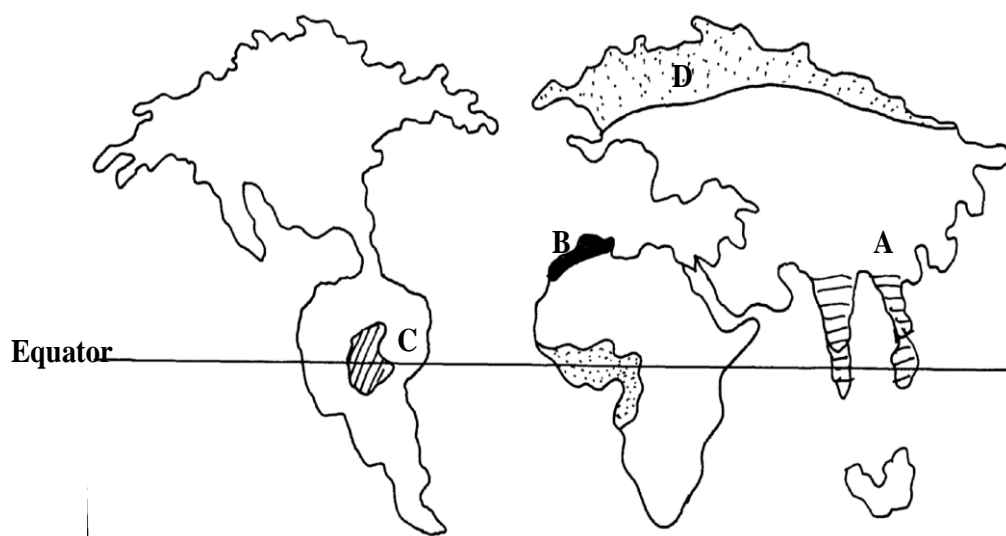
(c) Explain **two** factors that may lead to glacial erosion in upland areas. (4mks)

(d) Suppose you were to carry out a field study on aglaciated upland.

(i) Name **two** types of moraine you are likely to identify.(2mks)

(ii) Give **four** reasons why you would need the map of the area. (4mks)

10. The diagram below shows the world distribution of climate types .Use it to answer questions (a)(i)and(ii)

(a) (i) Name the climatic Regions marked **A,B** and **D.**   (4mks)

(ii) State any **four** characteristics of the climate marked **C** (4mks)

(b) (i)   Identify any **three** types of cold climates.   (3mks)

(ii) Briefly explain microclimate.   (4mks)

(c) (i) What is climate change?   (2mks)

(ii) Study the table below and use it to answer questions (a), (b) and (c)

Station Y

Months	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec
Temperature (oC)	28	28	27	26	23	21	21	21	23	26	26	27
Rainfall (mm)	277	213	256	107	56	33	31	28	20	132	135	234

(a)   Calculate the mean annual temperature for the station. (2mks)

(b)   What is the mean annual rainfall.   (2mks)

(c)   State any **one** characteristics of the type of climate in the station.   (2mks)

(d) (i) Explain any **two** causes of global warming.   (4mks)

(ii) Name any **one** greenhouse gases.   (1mk)

PP1 PROJECTION NO. 49

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

(a) This paper has **two** Sections **A** and **B**.

(b) Answer all the questions in Section **A**.

(c) Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.

(f) Candidates should answer the questions in English.

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Question	Maximum score	Candidate's score
1-	80	

SECTION A

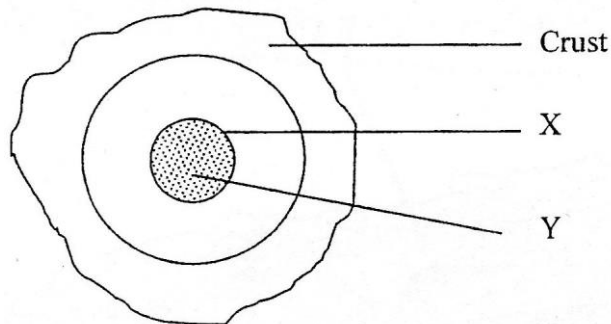*Answer all questions in this section*

1. (a) Define the term orbit   (1mk)

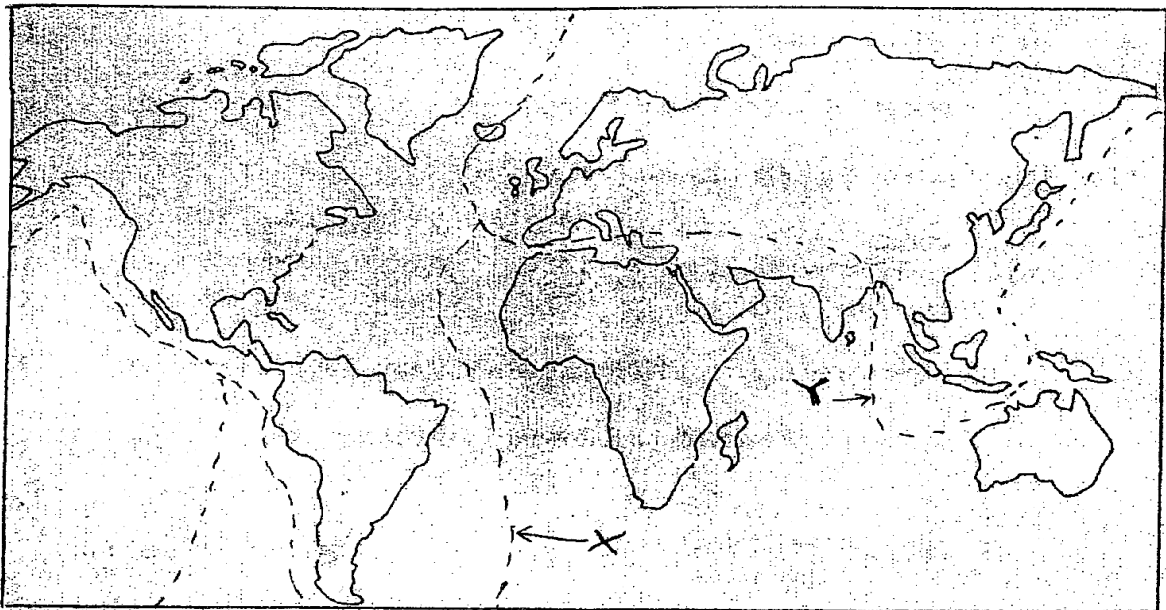   (b) The diagram below shows the internal structure of the earth. Use it to answer the questions that

   follow.

   (i) Name the zone of discontinuity marked X.   (1mk)

   (ii) State three characteristics of the part marked Y.   (3mks)

2. Use the world map below to answer question (a)
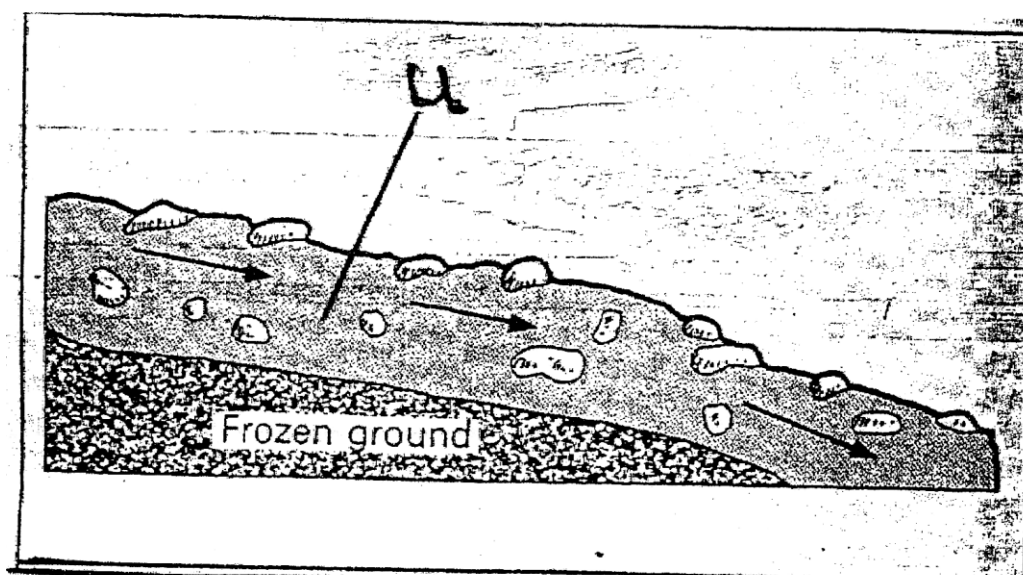
(a) Name the tectonic plate boundary marked X and Y.   (2mks)

(b) What is the importance of studying the plate tectonics theory?   (3mks)

3. (a) Apart from normal faults, name two other types of faults.   (2mks)

(b) Describe three distinctive characteristics of the Rift Valley.   (3mks)

4. The diagram below shows mass movement on a slope. Use it to answer question (a).

(i) Name the type of mass movement shown.   (1mk)

(ii) Name the part marked U.   (1mk)

(b) State three negative effects of mass wasting in Kenya   (3mks)

5. (a)   What is underground water   (1mk)
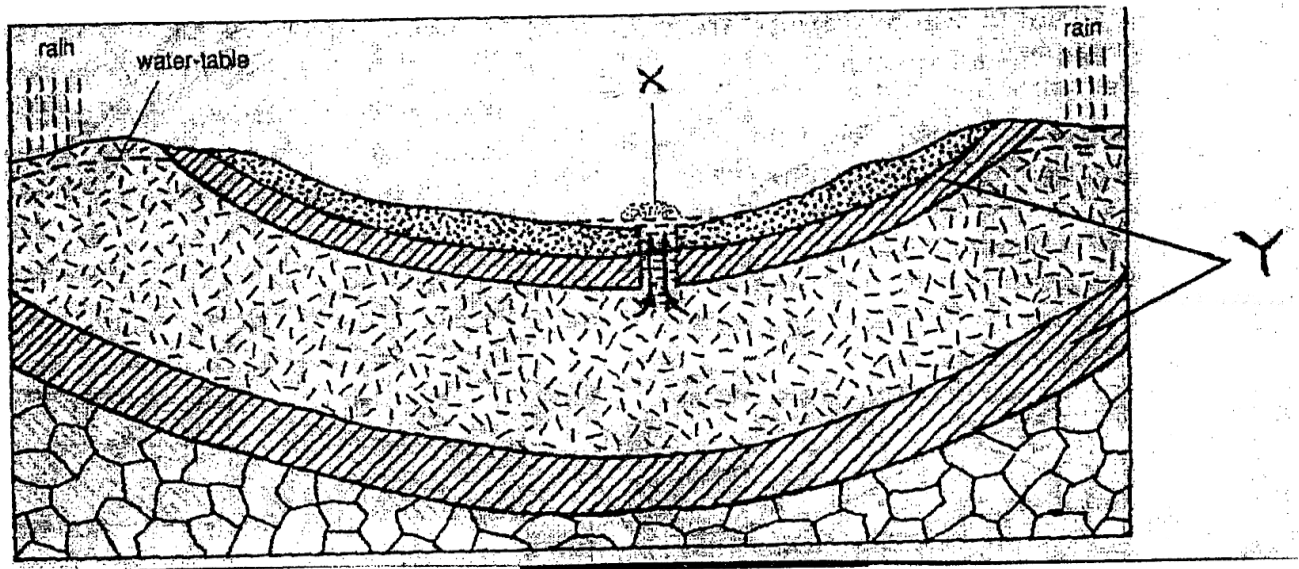
(b)   Give two main sources of underground water   (2mks)

(c)   The diagram below shows an artesian basin. Name the parts marked X and Y. (2mks)

SECTION B

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

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

(a) (i)Give the six-figure reference of the trigonometrical station at Gatimbi. (2mks)

(ii) Give the latitudinal extend of the are covered by the map. (2mks)

(iii) What is the length in kilometers of the all-weather bound surface road junction at Getuaga to the road junction at Gatimbi? (2mks)

(iv) What is the approximate height of the peak of Kirui hill? (2mks)

(b) Explain three factors which have influenced the distribution of settlements in the area covered by the map. (6mks)

(c)Draw a rectangle 15cm by 10cm to represent the area covered by the map. (1mk)

On the rectangle, mark and name;

(i) Rurie swamp (1mk)

(ii) Forest (1mk)

(iii) River Muugi (1mk)

(d) (i) Citing evidence from the map, give two reasons why the area covered by the map is suitable for coffee growing. (4mks)

(ii) Apart from agriculture, name three other economic activities carried out in the area covered by the map. (3mks)

7. (a) (i)   What is a rock?   (2mks)

(ii) Explain the process of formation of mechanically formed sedimentary rocks.
(5mks)

(iii) Give three examples of mechanically formed sedimentary rocks.
(3mks)

(b)   Explain three ways in which rocks are significant to the economy of Kenya.
(6mks)

(c)   Students from your school carried out a field study on the type of rocks.

(i) One of the rock samples they collected is coral. Give three uses of this type of
rock (3mks)

(ii)   Give three types of information for their study.   (3mks)

(iii) State three problems they are likely to have encountered during the field
study. (3mks)

8. (a) (i)   Distinguish between catchment area and a drainage basin.   (2mks)

(ii) Explain three factors which influence the ability of a river to transport its load.
(6mks)

(iii) The diagram below shows a feature formed by erosion along the river course.
Name the parts marked Q, R and S.   (3mks)
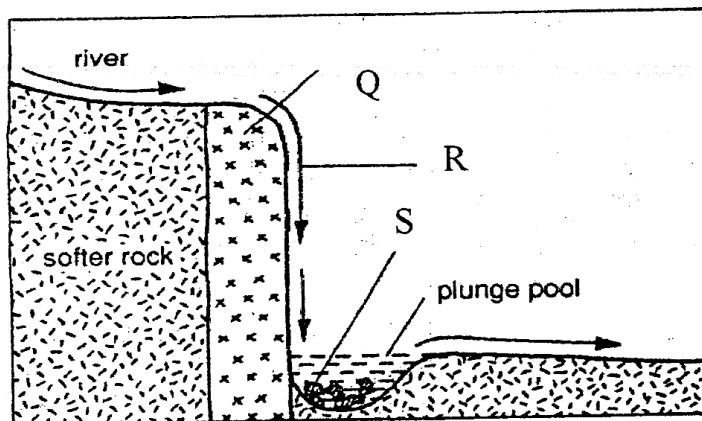
(b) (i) What is a delta? (1mk)

(ii) Draw a diagram to show an arcuate delta. (4mks)

(iii) Name one river in Northern Kenya which forms a birds foot delta. (1mk)

(c) Students from your class carried out a field study on a nearby river to study various features along its course.

(i) Give four reasons why the class was divided into groups. (4mks)

(ii) Give four follow-up activities you were involved in after the field study. (4mks)

9. (a) (i) What is glaciation? (2mks)

(ii) Explain three factors that influence the rate of glacial erosion. (6mks)

(b) (i) Apart from cirques, name two other erosional features found in glaciated highlands. (2mks)

(ii)With the aid of a well labeled diagram, describe how a cirque is formed. (7mks)

(c) Explain four positive effects of glaciation in lowland areas. (8mks)

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10.   (a)   What is natural vegetation?   (2mks)

(b)   The map below shows some vegetation regions of the world. Use it to answer the questions that follow.
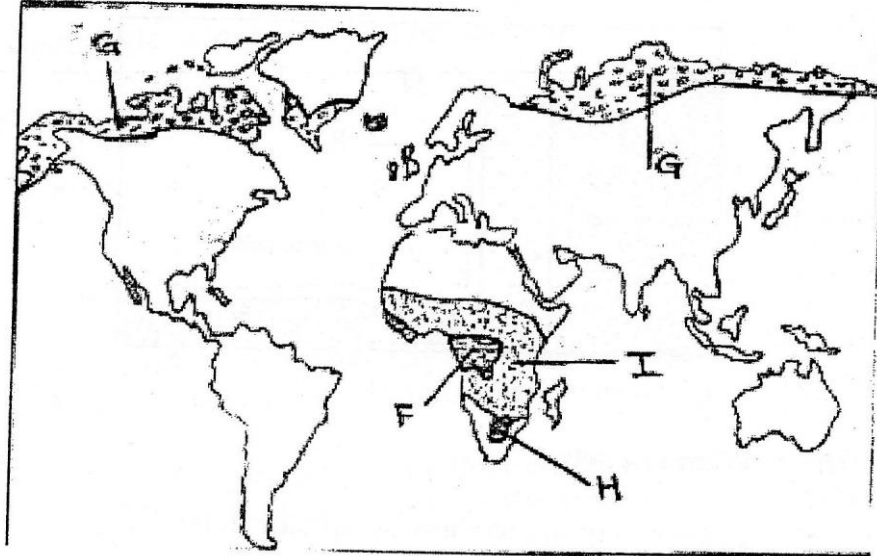
Name:

(i)   The type of vegetation found in the are marked F and G.   (2mks)

(ii)   The grassland found in the area marked H   (1mk)

(iii)   Describe the characteristics of the natural vegetation found in the shaded are marked I   (4mks)

(c)   (i)   draw a well labeled diagram to show soil catena   (4mks)

(ii)   Explain how the following farming practices cause soil erosion

Monoculture   (2mks)

Overstocking   (2mks)

(d)   (i)   State two factors that contribute to soil leaching.   (2mks)

(ii)   Explain three ways in which vegetation prevents soil erosion. (6mks)

PP1 PROJECTION NO. 50

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

(a) This paper has **two** Sections **A** and **B**.

(b) Answer all the questions in Section **A**.

(c) Answer question **6** and any other **two** questions from Section **B**.

(d) All answers must be written in the answer booklet provided.

(e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
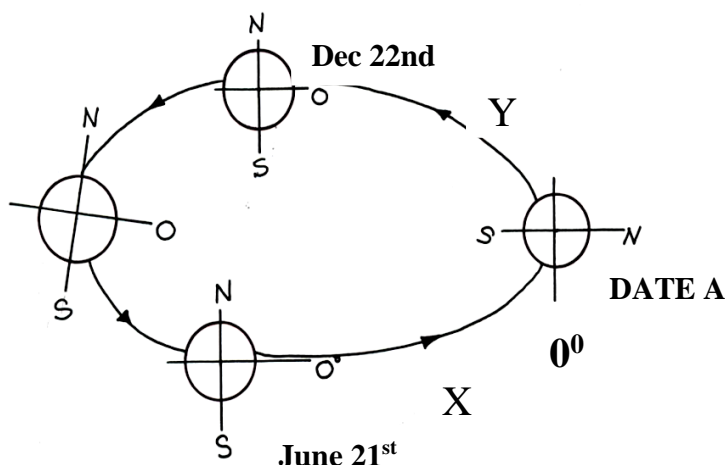
(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

| Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer all questions in this section

1. a) Differentiate between rotation and revolution of the Earth.(2mks)

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

   i.   Identify the seasons marked X.   (1mk)

   ii. The date marked A.   (1mk)

   iii. Give one characteristic of summer solstice.   1mk)

2. a) Describe how a maximum thermometer works.   (3mks)

   b) State reasons why Stevenson's screen is;   (2mks)

   i.   Painted white

   ii. Has louvers

3. a) State three conditions which leads to glacial deposition in Lowlands.

           (3mks)

   b) Study the diagram below of glacial erosion in Lowlands and answer
   the questions that follow.

Movement of ice
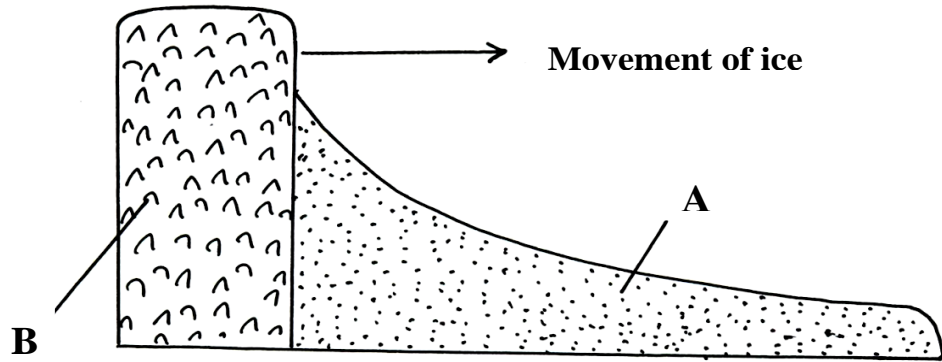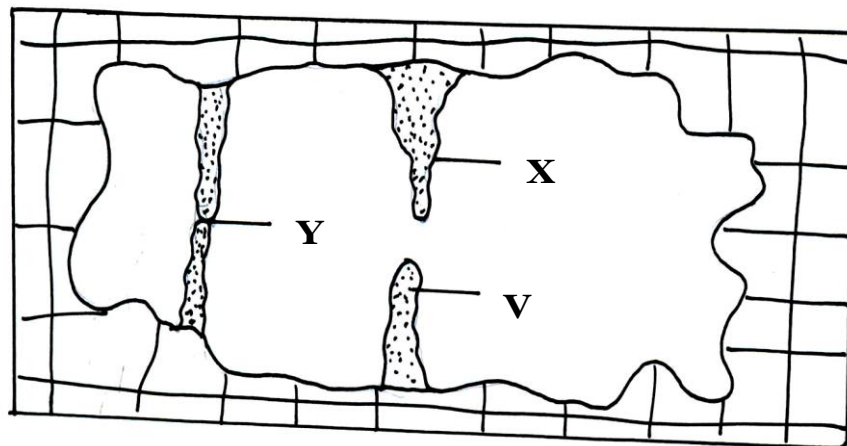
Name the parts marked ; (2mks)

A.…………………………

B.……………………….

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

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

5. The diagram below represents underground feature in a limestone area. Use it to answer question (a)

   a) Name the features marked ;

      X.……………………………….

      Y.……………………………….

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

SECTION B

Answer question <u>6</u> and any other two questions

6. Study the map of Karatina 1:50,000(sheet 121/3) provided and answer the following
   Questions.
   a) i) What was the magnetic declination of the map as at January 1992.
      (1mk)
      ii) Give the Latitudinal and Longitudinal extent of the mapped area.
      (2mks)
   b) i) A part from contours, name one other method used to show relief in the mapped area.   (1mk)
      ii) Calculate the area of Mt. Kenya forest reserve within Kirinyaga District shown in the map. Give your answer in square kilometers.
      (2mks)

   c) i) A part from houses, Name two human made features in grid square 8755.   (2mks)
      ii) Assume that four people lived in each house in the grid square 8755. Calculate the population density.   (3mks)
   d) Describe the flow of River Sagana .   (3mks)

   e) i) Using evidence from the map, identify two farming activities taking place in the mapped area.   (2mks)
      ii) Explain three factors which have influenced any one of the farming activities identified in e (i) above.   (6mks)

   f) Brieflyexplain how the following factors have influenced the distribution of
      Settlement in the mapped area.
      i.   Forest Reserve   (2mks)
      ii. Rivers   (2mks)

7. a) i) What is the difference between plutonic and volcanic rocks.

   (2mks)

   ii) Give two examples of plutonic rocks.   (2mks)

   b i) Describe the following characteristics of minerals.

   i.   Lusture   (2mks)
   ii. Colour   (2mks)
   iii. Hardness   (2mks)

   c) Explain three ways in which sedimentary rocks are significant to the

      Kenyan

      Economy.   (6mks)

   d) Form four students of Kwale school intend to carry out a field study

      on rocks within Seme in Kisumu County

   i.   Give the major rock type are likely to study.   (1mk)

   ii. Give three secondary sources of information they would use to

        prepare for the field study.   (3mks)

   iii. State why they would need the following

        - Hammer   (1mk)

        - Route map   (1mk)
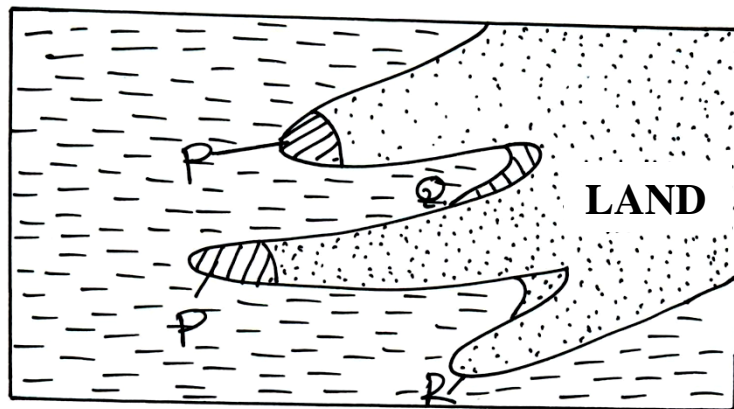
        - Working schedule   (1mk)

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

ii) Distinguish between a coast line and shore line. (2mks)

b) The sketch diagram below represents a coastal Landscape.

Study it carefully and answer questions b i

i) Name the factors labeled PQR (3mks)

P……………………………………………

Q……………………………………………

R……………………………………………

ii) Describe how blow holes and geos are formed

- Blow hole (3mks)

- Geos (2mks)

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

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

d) Students of Mwatate School conductes a field study on coastal emergence

Along the coast of Kenya.

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

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

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

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

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

    (4mks)

    b) i)Use the diagram below to answer the following questions
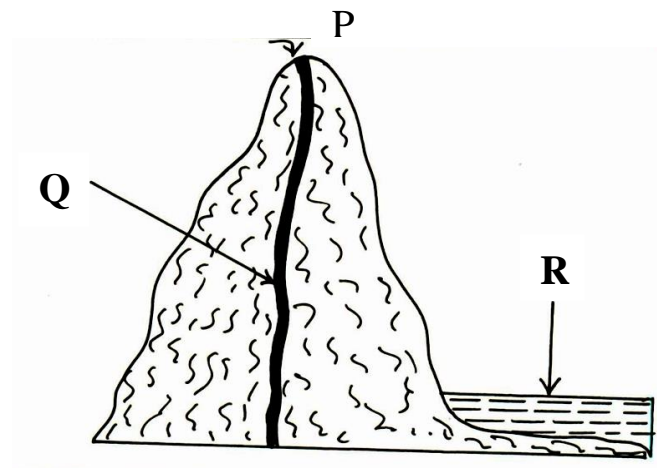
P…………………………………….   (1mk)

Q…………………………………….   (1mk)

R…………………………………..   (1mk)

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

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

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

i) State 2 objectives for their study. (2mks)
ii) List three methods they would use to record data during the field study. (3mks)

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

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

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

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

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

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

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

i)Name two types of soil erosion they are likely to identify during the study. (2mks)
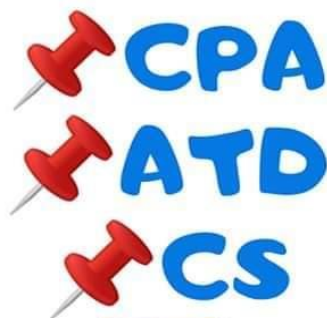
ii) State the use of the following tools and equipments during their study.
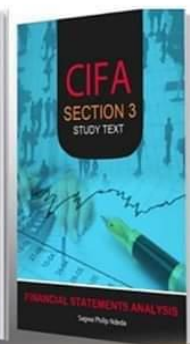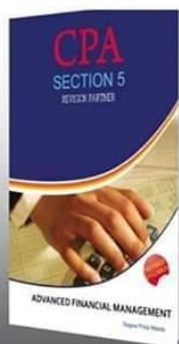
A hoe (2mks)

Polythene bag (2mks)

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