GEOGRAPHY PP1 SERIES 3

EXAMINERS PROJECTION 10 PAPERS

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PP1 PROJECTION NO. 21

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.

(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 from this section in the spaces provided.

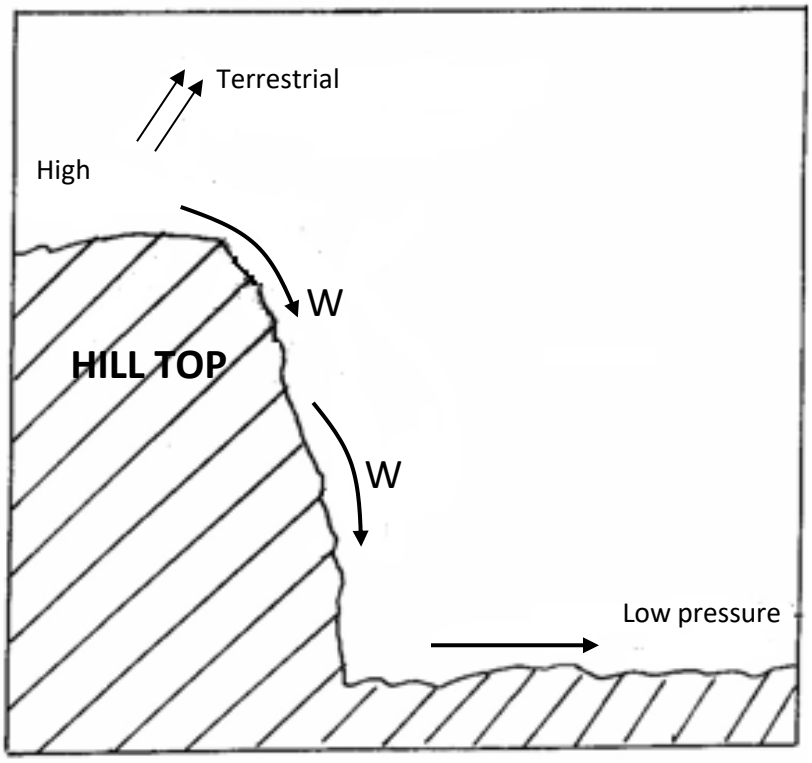
1. (a) Give **three** heavenly bodies. (3mks)

   (b) Distinguish between equinox and solstice. (2mks)

2. (a) What are harmattan winds. (2mks)

   (b) The diagram **below** shows a type of wind.

   (c) The diagram **below** shows a type of wind.



(i) Identify the type of wind marked **W**. (1mk)

(ii) List **two** characteristics of the type of the wind marked **W**.(2mks)

3. (a) What is a mineral? (2mks)

(b) Name **two** metallic minerals? (2mks)

4.(a) What is climate? (2mks)

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

5. (a) What is a karst scenery/ (2mks)

(b) Give **three** factors that influence the development of karst scenery. (3mks)

SECTION B:

Answer question **6** and any other **two** questions

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

(a) (i) Give the longitudinal extent of the area covered by the map. (2mks)

(ii) Identify the settlement patterns found on the Northern area covered by the map. (3mks)

(b) (i) Measure the distance of the Kitale Municipality boundary. Give your answer in kilometers. (2mks)

(ii) What is the bearing of the Air photo principal point on the grid square 2912 from the Air photo principal point on grid square 3516. (2mks)

(c) (i) Draw a rectangle 15cm by 9cm to represent the area East of Easting 40 and North of Northing 20. (1mk)

(ii) On the rectangle mark and name.

- Road C640. (1mk)
- River Kapsara. (1mk)
- Rogurr hill. (1mk)
- District boundary. (1mk)

(iii) Calculate the area to the East of the District boundary and to the South of Northing 23. (2mks)

(d) (i) Identify **two** types of vegetation found in the area covered by the map. (2mks)

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

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

(b)(i) Classify rocks according to their mode of formation.(3mks)

(ii) Identify **two** classes of rocks mentioned in (i) above that are formed from the already existing rocks. (2mks)

(iii) List **two** characteristics of rocks. (2mks)

(c) (i) List **two** main types of rocks dominant in Kenya.(2mks)

(ii) Explain the importance of studying rocks. (6mks)

(d) Explain **four** benefits of rocks to the economy of a country. (8mks)

8. (a) (i) What is mass movement? (2mks)

(ii) List the **two** broad categories of mass wasting.(2mks)

(b) (i) What is soil creep? (2mks)

(ii) Describe the factors that cause soil creep. (5mks)

(c) Differentiate between soils creeps and rock slide. (6mks)

(d) Explain the negative effects of mass wasting on physical and human environment. (8mks)

9. (a) Differentiate between a ocean and a sea. (2mks)

(b) (i) Identify the **main** cause of water movement in the ocean. (2mks)

(ii) Identify the **two** main water movements in the oceans.(2mks)

(c) List **three** processes through which erosion occurs along the Coasts. (3mks)

(d) Using a well labeled diagram describe the formation of a spit. (5mks)

(e) Describe the **three** types of coasts. (6mks)

(f) Explain how oceans currents influence the climate of the surroundings. (5mks)

10.(a)(i) What is ice? (1mk)

(ii) Differentiate between glacier and avalanche. (2mks)

(b)(i) Identify the **two** main glacier erosion processes.(2mks)

(ii) Describe the factors that influence glacier erosion.(6mks)

(c) Explain **four** effects of glaciations on human activities. (8mks)

(d) Students from Neive School are planning to carry out a field study of a glaciated area.

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

(ii) State **two** ways they would prepare for the study. (2mks)

(iii) Give **two** methods they would use to collect information. (2mks)

PP1 PROJECTION NO. 22

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.

(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) List the disadvantages which are related with the following areas of study of geography.

(i) Geomorphology(1mk)

(ii) Biogeography. (1mk)

(b) List **three** main areas of study of physical /geography (3mks)

2. (a) List any t**wo** main areas which make up the external art of the earth.

(b) List any **three** discontinuities which are found in the atmosphere (3mks)

3. (a) What is plate tectonics theory? (2mks)

(b) Name **three** main boundaries which develop due to the movement of plate tectonic(3mks)

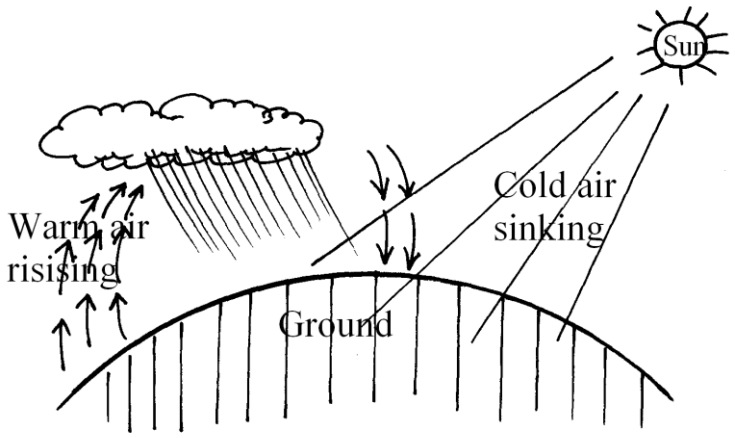
4. (a) Define the following terms of the hydrological cycle

(i) Precipitation (1mk)

(ii) Evaporation (1mk)

(b) List any three factors that influence the rate of evaporation from the earth's surface(3mks)

5. The diagram below show the formation of some type of rainfall .Use it to answer question(a) and (b)



(a) (i) Name the type of rainfall shown by this diagram(1mk)

(ii) Name the type of cloud marked (a) (1mk)

(b) List three weather conditions associated with the above name (a) type of rainfall.(3mks)

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 to answer questions that follow.

(a) (i) Identify the feature found in grid reference 967543 (1mk)

(ii) What is the distance of River Sagana found to the South Western area of the area covered by the map from the bridge in grid square 8347 to the Southern edge of the area covered by the map (Give your answer in Kilometres)

(iii) List any **two** methods that have been used to represent the relief of the area covered by the map (2mks)

(b) (i) Calculate the area covered by the part of Mt. Keya forest East of easting 99 and south of Northing 55(Give your answer in square Kilometres) (3mks)

(ii) Name **two** district found in the area covered by the map (1mk)

(c) (i) Using a vertical scale of 1cm rep 50m draw a cross section from grid reference 810500 to 870500 (5mks)

(ii) On the cross section drawn mark and name

-All weather roads (loose surface) (1mk)

-River Rithithi (1mk)

-Power line (1mk)

(iii) Calculate vertical exaggeration (VE) for the cross section drawn (2mks)

(d) Describe drainage in the area covered by the map (6mks)

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

(ii) Describe how a normal fault is formed (2mks)

(b) (i) With the aid of well –labelled diagrams explain how a rift valley is formed by tensional forces. (8mks)

(ii) A part from the Rift valley name any other three features formed by faulting(3mks)

(c) Mention any **five** effects of the process of faulting to human environment (5mks)

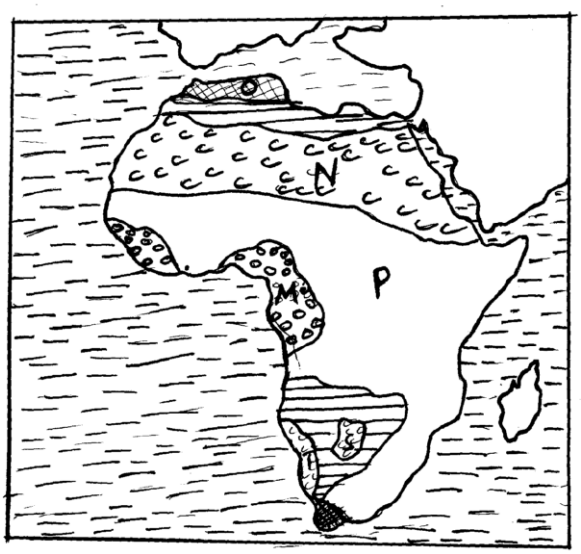
(d) Students from Itiero Girls High School intend to carry out a field study of a fault block near their school.

(i) List any **three** objectives for their study (3mks)

(ii) List any **two** secondary sources of information that they would use to collect data

(2mks)

8.



(a) (i) Name the types of climates marked M,O and P(3mks)

(ii) Name the desert marked T and S (2mks)

(b) Describe the characteristics of the climate marked N(6mks)

(c) (i) Explain any **four** natural factors influencing aridity and desertification. (8mks)

(d) Explain any **six** effects of desert features on the human environment. (6mks)

9.(a) (i) Define the term sea. (2mks)

(ii) List any **three** features which occur in the oceans (3mks)

(b) (i) Define the term waves (2mks)

(ii) Differentiate the term swash from backwash (2mks)

(c) (i) Explain any **three** processes of wave erosion(6mks)

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

(iii) Give **three** conditions necessary force formation of coral reefs (3mks)

(d) List any **three** features which develop on submerged highland coasts. (3mks)

10. (a)(i) List any t**hre**e sources of underground water (3mks)

(ii)Differentiate pervious rocks from porous rocks (2mks)

(b) Explain **four** factors that influence the occurrence of underground water. (8mks)

(c) (i) Mention any **three** factors necessary for the formation of karst features.(3mks)

(ii)List any **three** underground features of karst areas(3mks)

(d) Explain any **three** significance as of karst features to man. (6mks)

PP1 PROJECTION NO. 23

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.

(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

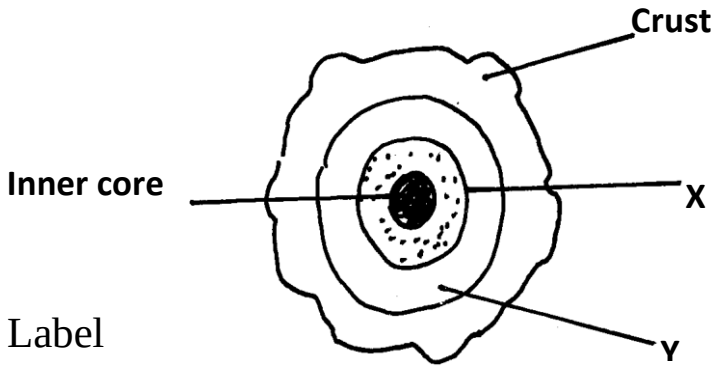
SECTION A

Answer all questions in this section (25 marks)

1 (a) If time in New York (74^0W) is 10:00am.What is the time at Wajir (40^0E) (2mks)

(b) State three effects of the revolution of the earth (3mks)

2 The diagram below represents the internal structure of the earth .Us it to answer the following questions .



(a) Label parts marked X and Y (2mks)

(b) Describe the characteristics of the inner core (3mks)

3 (a) What is an Earthquake? (2mks)

(b) State two human causes of Earthquakes (2mks)

4 (a) List two features resulting from water erosion in hot deserts (2mks)

(b) Give four factors that influence wind deposition (4mks)

5 (a) Name two major types of rocks found in Western Kenya (2mks)

(b) State three ways through which rocks are weathered (3mks)

SECTION B

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

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

(a) (i) Name two districts found in the area covered by the map (2mks)

(ii) Find the magnetic declination from the true North as at January 1970 (1mk)

(iii) Measure the distance of the all weather road from junction at Kipchimchim in grid reference 529640 to its end near Kapchetoror school at grid square 5565.Give your answer in kilometres . (2mks)

b) (i) Other than the forest name three types of natural vegetation found in the area covered by the map (3mks)

(ii) Citing evidence from the map name five functions of Kericho Town (5mks)

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

d) (i) Using vertical scale f 1cm to represent 50 metres .Draw a cross section from Buchenge area at grid reference 630695 to grid reference 690690. On it mark and label

- Hill
- Road
- River (6mks)

(ii) Calculate the gradient along the cross section (2mks)

7 a) (i) Differentiate between faulting and folding (2mks)

(ii) Name four types of faults (4mks)

b) (i) State three ways through which Rift Valleys can be formed(3mks)

(ii) Give four characteristics of Rift valley lakes (4mks)

c) Using a well labeled diagram describe the formation of a tilt block (6mks)

d) Explain three ways faulting can influence drainage systems(6mks)

8 a) (i) Give two ways underground water may reach the earth's surface (2mks)

(ii)State three conditions necessary for the formation of artesian wells(3mks)

b) Explain three importance of underground water (6mks)

c) (i) Give three factors which influence the development of Karst landscape (3mks)

(ii) Explain three reasons why Karst landscape discourages settlement (6mks)

d) In a aid of a well labeled diagram describe the formation of a limestone pillar. (5mks)

9 a) (i) Name three soil components (3mks)

ii) State five ways through which vegetation naturally protects the soil and prevents

Soil erosion (5mks)

b) (i) Explain three ways soil degeneration occurs (6mks)

(ii) Explain three uses of soil (6mks)

c) You are required to carry out a field study on soil around your school.

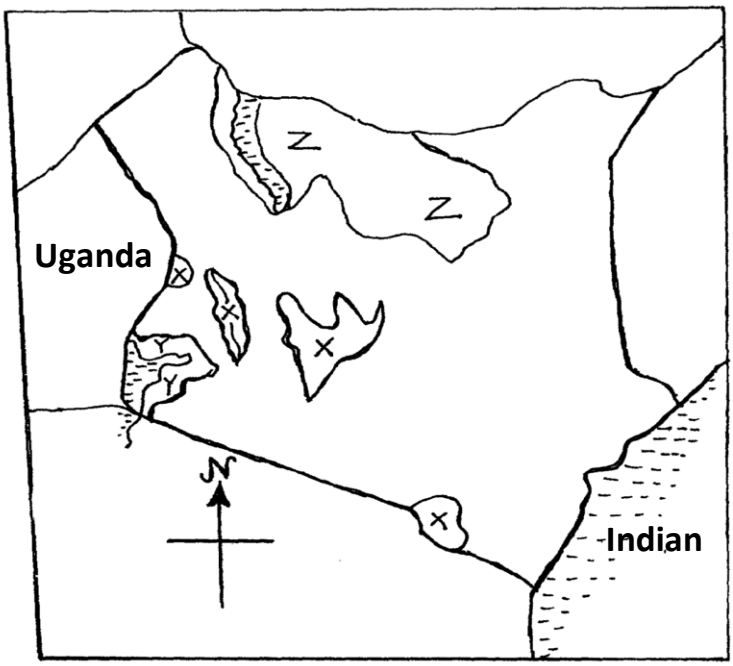
(i) Formulate two hypotheses for your study (2mks)

(ii) What information would you collect through observation that would indicate that the area is affected by soil erosion (3mks)

10 a) i) State **four** factors influencing the distribution of vegetation in the world (4mks)

ii) Explain **four** factors that have led to a decline of the natural grasslands in Kenya (8mks)

b) Use the Kenyan Map below to answer question b (i) and (ii)



(i) Identify the vegetation zones marked X and Y (2mks)

(ii) Give **five** characteristics of vegetation marked Z (5mks)

c) Students from a school in western province carried out field study on vegetation along a mountain slope.

i) State **three** objectives they made for their study (3mks)

ii) Give **three** problems they may have encountered during the field study (3mks)

PP1 PROJECTION NO. 24

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.

(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) Identify **Two** forces responsible for the spherical shape of the earth. (2mrks)

b) Give **Three** reasons why the interior of the earth is still hot. (3mrks

2. a) Outline **Two** characteristics of the troposphere. (3mrks)

b) Apart from cloud cover, identify **Two** other factors which influence the amount of solar radiation received on the earth's surface. (2mrks)

3. a) Outline **Three** conditions that may make a rock resistant to weathering. (3mrks) b) Outline **Two** characteristics of sedimentary rocks. (2mrks)

4. a) Name **Three** regions which experience earthquakes frequently. (3mrks)

b) Name any **Two** types of earthquake waves that are picked up clearly by a seismograph. (2mrks)

5. a) Give **Two** differences between an ocean and a sea. (2mrks)

b) Outline **Three** factors which influence the salinity of ocean water. (3mrks)

SECTION B

Answer question 6 and any other two questions

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

a) i) Give the four figure grid reference of the culvert on R. Kipkwes on the road to Kapsoit. (2mrks)

ii) What is the direction of the dam in grid square 6771 from Kericho forest station. (2mrks)

iii) State the magnetic declination at the time the map was drawn. (2mrks)

b) i) Using a scale of 1cm represents 20 metres, draw a cross section starting from GR 530680 to GR 600680. (5mrks)

ii) Calculate the vertical exaggeration of your cross section. (2mrks)

c) i) Citing evidence from the map, give two reasons which prove that the region north of northing 67 receives less rainfall compared to the southern region covered by the map extract. (2mrks)

ii) Name two recreational centres in Kericho town. (2mrks)

iii) Identify three types of natural vegetation represented on the map extract. (3mrks)

d) Describe the relief of the area covered by the map. (5mrks)

7. a) i)Identify three causes of earth movements. (3mrks)

ii) Outline three evidences which support the theory of continental drift. (3mrks)

b) i) Apart from Fold Mountains, give three examples of other features formed due to Folding. (3mrks)

ii) With the aid of well labeled diagrams explain how rift valleys are formed through anti-clinical warping. (5mks)

iii) Apart from the rift valley, identify two other landforms formed by faulting in Kenya. (2mks)

c) Your class intends to carry out fieldwork study on a faulted landscape.

i) Outline three hypotheses for the study. (3mrks)

ii) Outline three reasons why you need a working schedule for the exercise. (3mrks)

iii) Identify three methods you will use to present the data. (3mrks)

8.a) i) List three physical factors which contribute to the development of deserts. (3mrks)

ii) Give two examples of cold deserts in the world. (2mrks)

b) With the aid of well labeled diagrams describe the formation of the following.

i) Yardang (6mrks)

ii) Deflation hollows (3mrks)

iii) Rock pedestal (3mrks)

c) Some students carried out a field study in a desert region.

i) Outline three objectives for the study. (3mrks)

ii) Give three examples of feature formed by water which they are likely to have observed. (3mrks)

iii) What three problems did they face during the study? (3mrks)

d) Outline three economic uses of desert landscapes. (3mrks)

9. a) i) Identify three conditions which influence the occurrence of underground water. (3mrks)

ii) With the use of diagrams describe three types of springs. (3mrks)

b) i) Give three factors that influence the occurrence of karst landscape. (3mrks)

ii) Name four surface features found in karst regions. (4mrks)

iii) The diagram below shows features in a karst region. Explain how the feature marked X is formed. (4mrks)

c. Explain four ways in which limestone features are important to man. (4mrks)

10. a) i) List three constituents of the soil. (3mrks)

ii) Draw a diagram of a mature soil profile. (4mrks)

iii) Outline three reasons why some soils do not develop a mature profile. (3mrks) b) i) Name one zonal soil found in the tropical regions. (lmrk)

ii) Explain how the following factors influence soil formation.

- Time (3mrks)

- Nature of the parent rock (4mrks)

c) You intend to carry out a field study on soils in your district.

i) State four characteristics you would look for in classifying soils. (4mrks)

ii) Identify three natural causes of soil degeneration you observed. (3mrks)

PP1 PROJECTION NO. 25

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.

(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) What is desertification? (2 marks)

   (b) State three human activities that lead to desertification.(3 marks)

2. (a)Give three examples of mechanically formed sedimentary rocks. (3 marks)

   (b) State two changes that occur in sedimentary rocks when they are subjected to intense heat and pressure (2 marks)

3. (a)Why is ocean salinity higher in the tropical regions than at the equator . (2 marks)

   (b) Name three types of ocean tides. (3 marks)

4. (a)When local time is 2.00 p.m. at longitude 60^0E.What is the longitude of a place whose local time is 5.00 p.m. (3 marks)

   (b) Give two effects of the oval shape of the orbit of the earth. (2 marks)

5. (a)Apart from river and wave deposition state three ways in which lakes may be formed. (3 marks)

   (b) Name two lakes in Kenya where formed through river deposition. (2 marks)

SECTION B

Answer question 6 and any other two questions

6 Study the map of Karatina 1:50000 sheet 121/3 provided and answer the questions that follow.

(a)(i) Give the latitudinal and longitudinal extend of the area covered by the map. (2 marks)

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

(iii) Calculate the area enclosed by the forest boundary east of easting 97 and west of easting 05. (2 marks)

(b) (i) Draw a rectangle measuring 9 cm by 8 cm to represent the area enclosed by the following grid references

9653, 0553, 9645 and 0545

(1 mark)

(ii) On the rectangle mark and name the following.

- District boundary (1 mark)
- Kamurdwana hill. (1 mark)
- River Gakombaki (1 mark)
- All weather bound surface road from Kianga to Kariko (1 mark)

(c)Explain three factors influencing the distribution of population in the area covered by the map. (6 marks)

(d) Students of Kianga Secondary School carried out a field study of the area around their school.

(i) Identify two ways in which they prepared for the study (2 marks)

(ii) Using evidence from the map give three economic activities which they were able to identify (6 marks)

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

(ii) Identify three ways in which springs occur. (3 marks)

(b) With the aid of a well labelled diagram show the three zones of underground water. (6 marks)

(c)Explain how the following factors influence the existence of underground water.

(i) Precipitation (2 marks)

(ii) Vegetation cover (2 marks)

(d) (i) Name any three surface features of limestone areas.(3 marks)

(ii) Describe how stalagmites are formed (3 marks)

(e)State three significance of underground water to human activities (3 marks)

8. (a)(i) What is an ice sheet? (2 marks)

(ii) Give two reasons why there are no ice sheets in Kenya. (2 marks)

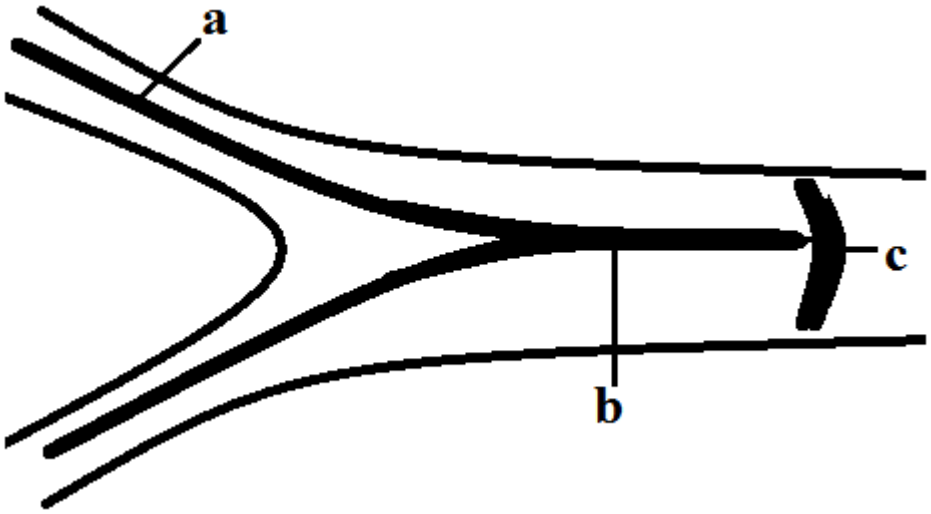
(iii) State three factors that influence the movement of ice from the place where it has accumulated. (3 marks)

(b) Describe the formation of the following features

(i) An Arete (4 marks)

(ii) Hanging valley (5 marks)

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



Name the types of moraine marked a,b and c. (3 marks)

(d) You have been asked to carry out a field study on land use on a glaciated lowland.

(i) State three preparations you would make for your field study.

(3 marks)

(ii) State three possible land uses you are likely to identify during the field study. (3 marks)

9.

(a)(i) Define faulting . (1 mark)

(ii) Identify three types of faults. (3 marks)

(b) Apart from compressional forces, explain two other processes that may cause faulting. (4 marks)

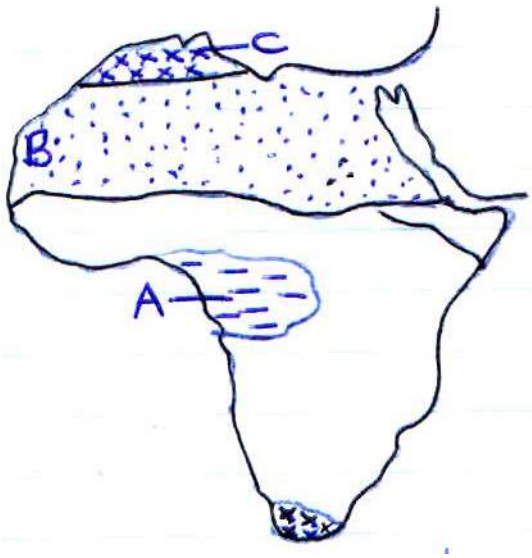
(c)With the aid of diagrams describe how compressional forces may have led to the formation of the Great Rift Valley.

(8 marks)

(d) Apart from the rift valley name three other relief features that were formed by compressional forces (3 marks)

(e)Explain three significance of faulting to the physical and human environment. (6 marks)

10. Below is a map of Africa representing climatic regions .Use it to answer the questions that follow.



(a)Identify the climatic regions marked a, b and c. (3 marks)

(b) Outline the climatic characteristics of the regions marked:

(i) A (4 marks)

(ii) C (4 marks)

(c) Explain how the following factors influence climate

(i) Altitude (4 marks)

(ii) Distance from the sea (4 marks)

(d)

(i) Describe a suitable site where you would locate a weather station.

(2 marks)

(ii) Give reasons why a Stevenson's screen is:

- Painted white (2 marks)
- Has louvers (2 marks)

PP1 PROJECTION NO. 26

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.

(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

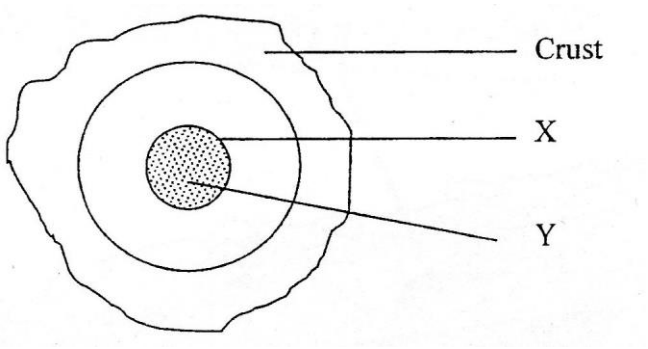
Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer all questions in this section

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

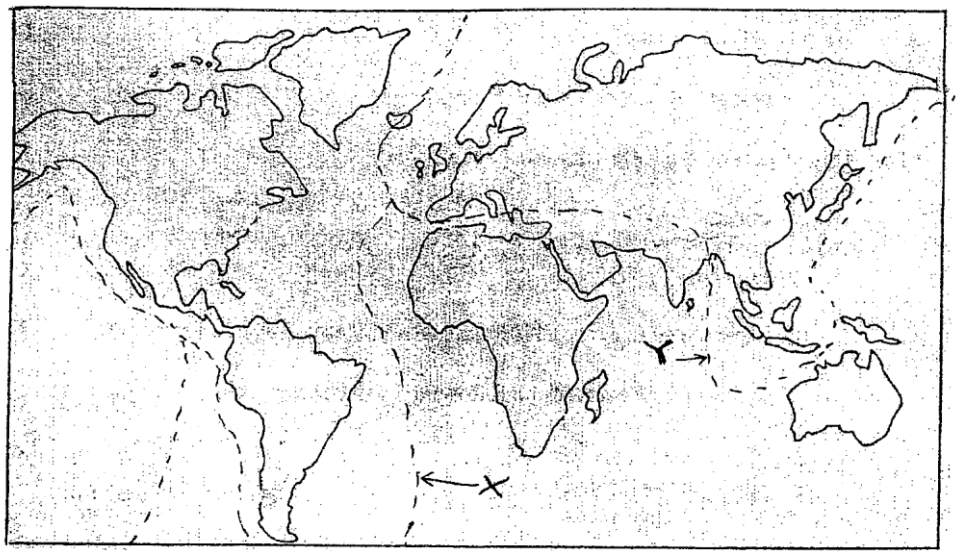
(b) The diagram below shows the internal structure of the earth. Use it to answer the questions that follow.



(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)



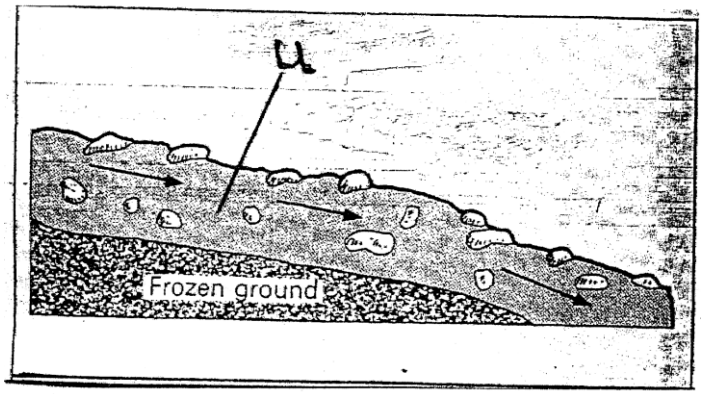
(a) Name the tectonic plate boundary marked X and Y. (2mks)

(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)

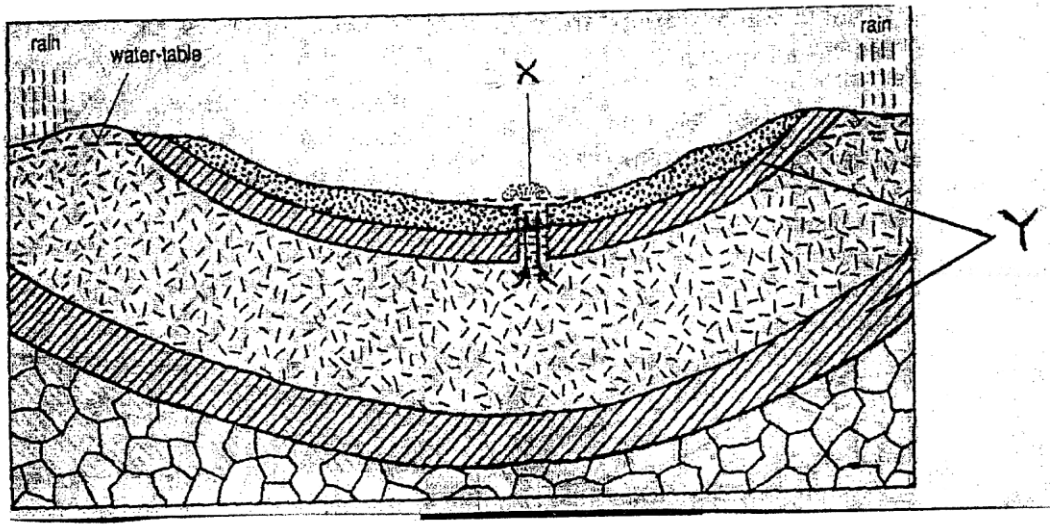
(ii) Name the part marked U. (1mk)

(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)

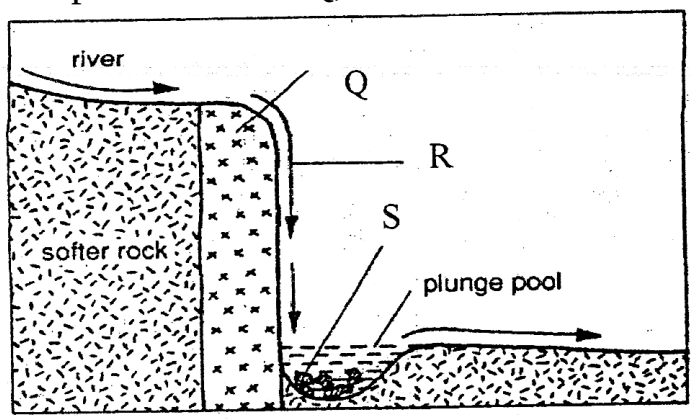
(ii) Give three types of information for their study. (3mks)

(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)

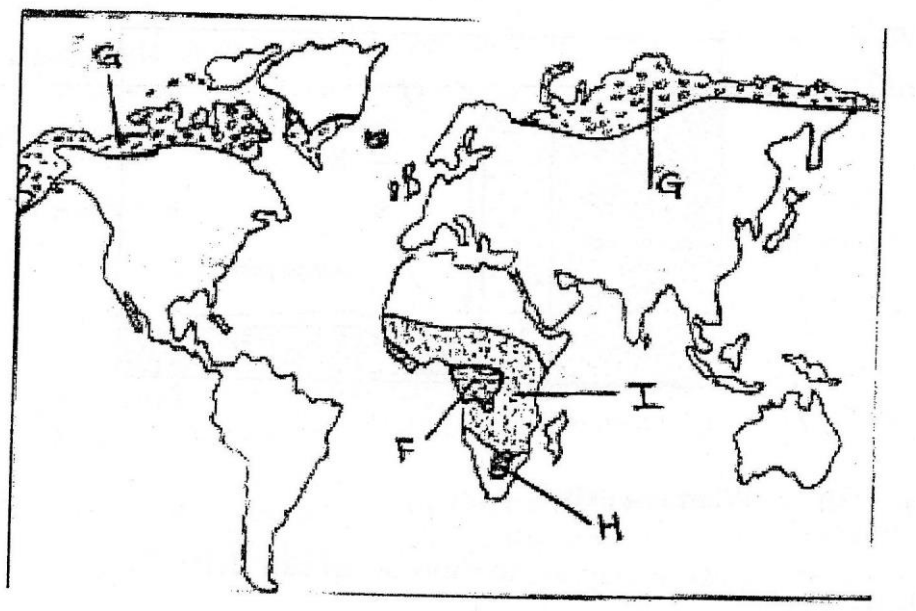
(b) (i) Apart from cirques, name two other erosional features found in glaciated highlands. (2mks)

(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)

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. 27

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.

(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer <u>all</u> the questions in this section

1. (a) List **two** non-food Agricultural industries . (2mks)

(b) Give **three** benefits which a country may derive from industrialization. (3mks)

2. (a) Differentiate between transport and communication. (2mks)

(b) State **three** Causes of the decline of letter writing as a means of communication in Kenya. (3mks)

3. (a) Give **three** measures the Kenya government has taken to check high population growth. (3mks)

(b) State **three** kinds of information that can be obtained from a population pyramid. (3mks)

4. (a) Outline **three** physical conditions that favour the cultivation of sugar cane. (3mks)

(b) State **two** uses of the by-products of sugarcane. (4mks)

5. State **four** problems facing softwood forests in Canada. (4mks)

SECTION B

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

6. Use the following table to answer the questions that follow:

No of animals in Division x on the Kenya highlands in 2010.

TYPE	NUMBER
Guernsey	8442
Aryshire	7345
Jersey	10830
Friesian	14360
Sahiwal	4270

a) (i) Using a scale of 1cm to represent 4000 animals represent the above data using a divided rectangle. (6mks)

(ii) State **two** disadvantage of using a divided rectangle to represent data. (2mks)

b) Outline **four** similarities between dairy farming in Kenya and Denmark. (4mks)

c) Identify **four** features of commercial livestock farming in Kenya. (4mks)

d) State **four** limitations of beef farming in Kenya. (4mks)

e) Outline **five** human factors favouring beef production in Argentina. (5mks)

7. a) (i) Name **two** major fishing grounds of the world (2mks)

(ii) List **two** methods of preserving fish in Kenya. (2mks)

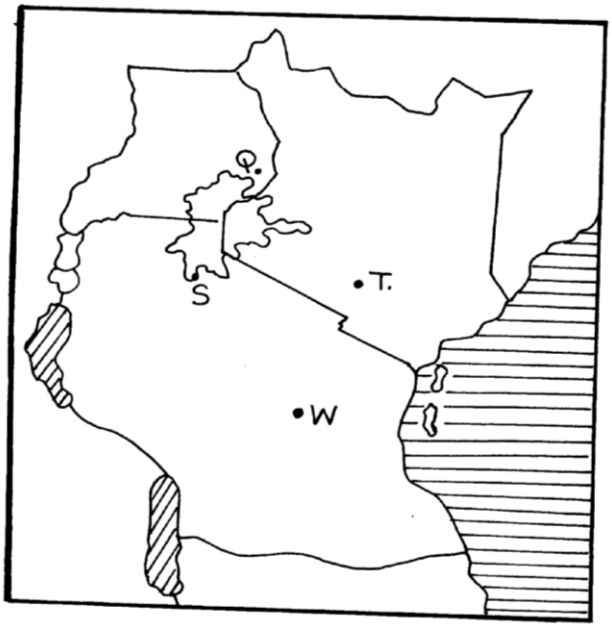
b) Explain **four** factors that favour fishing industry in the northern hemisphere (temperature lands) (8mks)

c)(i) Describe **four** measures that African countries have undertaken to promote the growth and development of fishing industries. (4mks)

(ii) Give **three** reasons why most African countries support international law that limits temporal waters of each country to a distance of 320km. (3mks)

d) (i) Describe how trawling method is used in fishing. (6mks)

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



a) Name

(i)The towns marked **T,W** and **Q** (3mks)

(ii) The lake port marked **S** (1mk)

b) (i) Explain **four** factors which have influenced the growth of major urban centres in East Africa. (8mks)

(ii) Name **three** functional zones of a town. 3mks)

c) Explain **three** negative effects of urbanization. (6mks)

d) Compare the functions of Nairobi and New York cities. (4mks)

9. a) Differentiate between horticulture and market gardening. (2mks)

b) State **three** main characteristics of horticulture. (3mks)

c) (i) Explain **four** conditions favouring the development of horticulture industry in Kenya. (8mks)

(ii) State **four** contributions of horticulture to the economy of Kenya. (4mks)

d) (i) Explain **three** reasons why horticulture is more developed in Netherlands than Kenya. (6mks)

(ii) Give **two** advantages of growing crops under green houses . (2mks)

10.a) (i) What is an environmental hazard? (2mks)

(ii) Apart from floods name **four** other environmental hazards.(4mks)

b) Give **four** reasons why we need to manage and conserve the environment. (4mks)

c) (i) Explain **three** effects of land pollution on the environment.(6mks)

(ii) Outline **five** measures that may be used to combat pollution. (5mks)

d) State **four** ways in which people are affected by floods. (4mks)

PP1 PROJECTION NO. 28

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.

(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer <u>all</u> the questions in this section

1. a) Name

(i) The planet nearest to the sun. (1mk)

(ii) The planet farthest from the sun. (1mk)

b) State **three** effects of the rotation of the earth. (3mks)

2. a) Name two types of compressional boundaries. (2mks)

b) Describe how a fold mountain is formed (by geosyncline)(4mks)

3. a) Name **two** warm Ocean currents. (2mks)

b) State **three** causes of horizontal movement of ocean water. (3mks)

4. a) What is a lapse rate? (2mks)

b) Name **one** layer of the earth's atmosphere which experiences.

-a negative lapse rate. (1mk)

- a zero lapse rate. (1mk)

5 a) Define Solfatara (2mks)

b) State **three** ways in which calderas can from. (3mks)

SECTION B

Answer question <u>Six</u> and any other <u>two</u> questions from this section.

6. Study the map of Homa Bay(1:50,000) Sheet 129/2 provided and answer the following questions

(a) i) Convert the ratio scale of the map extract into statement scale (1mk)

ii) Give the **six** figure grid reference for Asina dam (1mk)

(b) i) Draw a cross section along northing 40 from GR 490400 to 550400 use a vertical scale of 1cm rep 100m (3mks)

ii) On the cross section, mark and name: (3mks)

- a river
- a road(E117)
- Location boundary

iii) Calculate the vertical exaggeration of the section you have drawn. (2mks)

(c) i) Calculate the area of Homa Bay township. (2mks)

ii) Measure the length of the loose surface road C19 from the junction at Got Kokech to the Homa Bay township boundary. (2mks)

(d) i) Name **three** types of natural vegetation shown on the map. (3mks)

ii) Name **two** sources of water in the area of the map extract. (2mks)

iii) Using evidence from the map, suggest **three** functions of Homa Bay town. (3mks)

(e) Citing evidence from the map, mention **three** economic activities carried out in the area of the map extract. (3mks)

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. (3 mks)

8. (a) (i) Define weathering. (2 mks)

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

(iii) Give **four** factors that influence weathering. (4mks)

(b) Explain how the following types of weathering take place:

(i) Exforliation (6mks)

(ii) Carbonation. (4mks)

(c) Name **two** features formed in limestone areas after carbonation lakes place (2 mks)

(d) State **four** effects of weathering on human activities. (4mks)

9. (a) i) Define a lake. (2mks)

ii) Apart from faulting, mention **four** other ways in which a fake can be formed (4mrks)

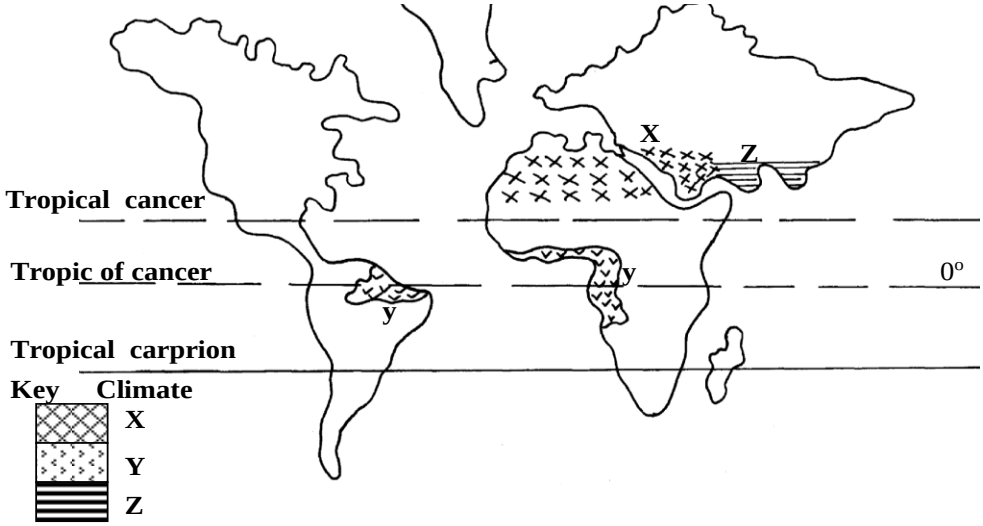
(b) i) Give **five** characteristics of fakes formed through faulting (5mks)

ii) Mention **three** factors that may determine the size of a lake (3mks)

(c) i) Explain **three** ways in which lakes affect the natural environment. (6mks)

ii) State **five** ways in which lakes are important to man (5mks)

10. The map below shows a few selected climatic regions of the world. Use it to answer questions a and c



a) (i) Name climates represented by **X,Y,Z** (3mks)

(ii) Give the characteristics of the climate marked **Y** (4mks)

b) Explain physical factors that have influenced existence of climate marked X (6mks)

c) (i) What is global warming?. (2mks)

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

d) Identify and explain three human activities that contribute to increased carbon dioxide in the atmosphere. (6mks)

PP1 PROJECTION NO. 29

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.

(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 from this section.

1. (a) What is a weather station? (2mks)

(b) State **two** conditions considered in choosing a suitable site for a weather station. (2mks)

2. (a) What do you understand by the term lapse rate? (1mk)

(b) At a given latitude, the sea level temperature is $30^{o}C$. What will the temperature be at thesummit of a 4000 metre-high mountain when the lapse rate is $0.6^{O}C$ per 100 metres a scent?(2mks)

(c) State **three** conditions that are necessary for the air to rise. (3mks)

3. (a) What is mechanical weathering? (1mk)

(b) How is an exfoliation dome formed? (3mks)

(c) Describe carbonation as a process of chemical weathering. (3mks)

4. (a) State **two** theories that are used to explain the origin of the earth. (2mks)

(b) What is solar system? (2mks)

5. (a) What is soil? (2mks)

(b) Name **two** types of soil according to texture. (2mks)

SECTION B

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

6. Study the map of Home Bay (1:50,000) sheet 129/2 provided and answer the following questions.

(a) (i) Give the sheet title of the map. (1mk)

(ii) Convert the scale of the map into a statement scale.(2mks)

(iii) Name **two** methods that have been used to represent relief on the map. (2mks)

(b) (i) What is the distance of the dry weather road E117 from the road junction in grid square 5733 to where it crosses northing 30? (Give your answer in kilometres). (2mks)

(ii) Calculate the bearing of God Nyamjini summit from the air photo principal in grid-square 4539. (2mks)

(c) (i) Using a vertical scale of 1cm to represent 50m, draw across-section from the easting 62 to66 along Northing 33. (3mks)

(ii) On it, mark and name (3mks)

River

Hill

Road

(iii) Calculate the vertical exergeration. (2mks)

(d) Describe the relief of the area covered by the map. (3mks)

(e) Suppose you were a student in the school at Nyamila and you plan to carry out a day's field study of A forest in Olambwe Valley.

(i) Design a working programme (schedule) you would use during the day of the study. (3mks)

(ii) Give **two** reasons why it would be necessary to sample part of the forest for the study. (2mks)

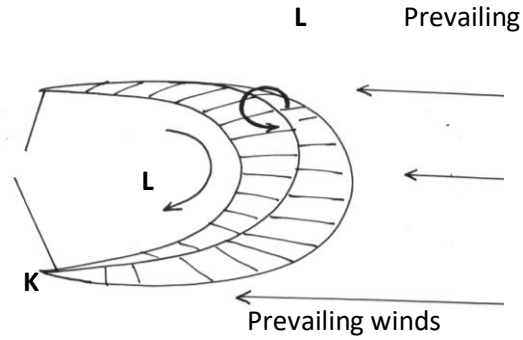
7.(a) What is a desert? (2mks)

(b) Name **three** types of deserts according to the nature of their surfaces. (3mks)

(c) (i) State **three** factors that make wind action more effective on the hot deserts. (3mks)

(ii) How is an oasis formed? (3mks)

(d) The diagram below shows a barchan.



(i) Name the feature marked K. (1mk)

(ii) Name the air current marked L. (1mk)

(iii) Describe the formation of a barchan. (5mks)

(e) You intent to carry out a field study on a desert landscape.

(i) Apart from conducting oral interviews, state four other methods you would use to collect information. (4mks)

(ii) State **three** problems that you are likely to encounter in the field. (3mks)

8. (a) Differentiate between Plutonic and Volcanic rocks. (2mks)

(b) Describe how a lava plateau is formed. (4mks)

(c) (i) State **four** characteristics of a composite volcano. (4mks)

(ii) Describe how mount Kenya was formed. (6mks)

(iii) State **three** ways through which mount Kenya has influenced the drainage of the area. (3mks)

(d) During your field work, you intent to study the volcanic rocks.

(i) State why you would need the following items:-

A hammer (1mk)

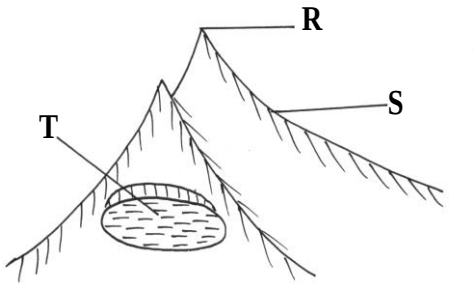
A polythene bag (1mk)

Lenses (1mk)

(ii) State **three** problems that you are likely to have experienced while collecting rock samples.

(3mks)

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)

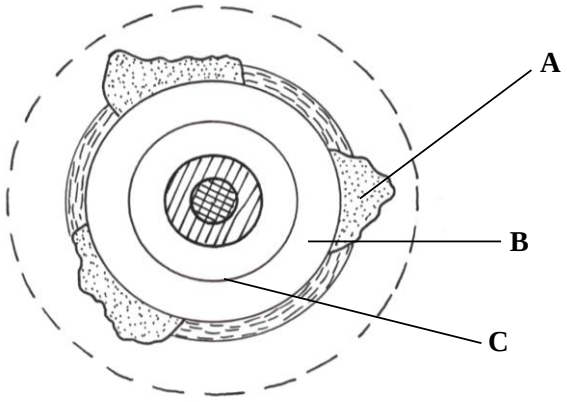
(c) Explain **two** factors that may lead to glacial erosion in upland areas. (4mks)

(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 cross-section of the internal structure of the earth.



(a) Name the parts marked A, B, and C. (3mks)

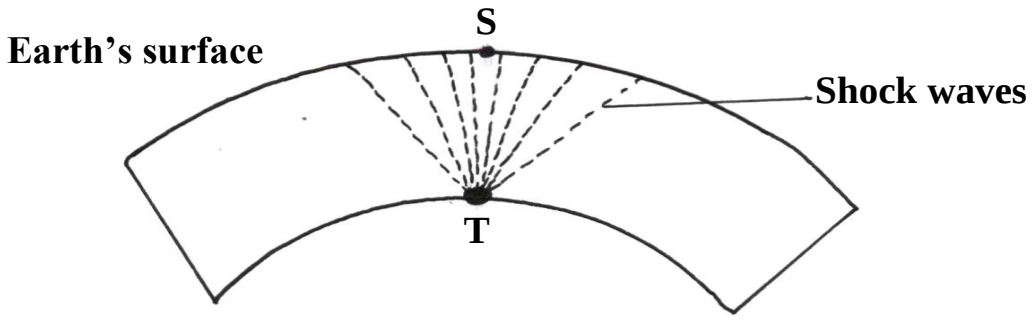
(b) Describe the characteristics of the:-

(i) mantle (4mks)

(ii) core (4mks)

(c) (i) What are earthquakes? (2mks)

(ii) The diagram below shows the vibration of shock waves within the crust.



Name the locations marked S and T. (2mks)

(iii) State **four** ways in which the earth's crust is affected by earthquakes. (4mks)

(d) You intent to carry out a field study of an area recently affected by an intense earthquake.

(i) Give **two** sources of information that you would use in preparation for the study. (2mks)

(ii) Explain **two** factors that would make it difficult for you to collect accurate data during the field study. (4mks)

PP1 PROJECTION NO. 30

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.

(f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

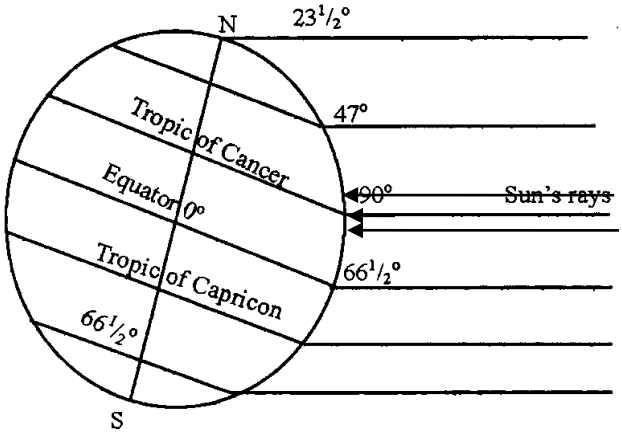
Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer all the questions in this section.

1.(a) State **two** differences between latitudes and longitudes (4mks)

(b) Study the diagram below and use it to answer questions b (i) and (ii).



(i) Name the type of the solstice shown in the diagram. (lmk)

(ii) Give the type of earth movement that result to the solstice shown in the diagram above. (lmk)

2. (a) Name **two** causes of earth movement. (2mks)

(b) State **three** evidences of continental drift theory. (3mks)

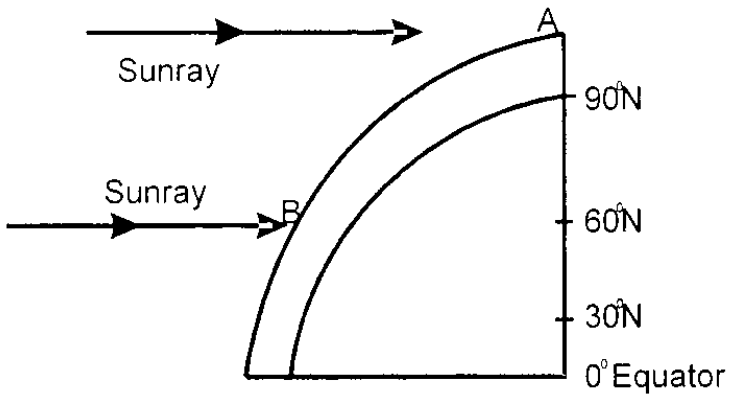
3. (a) Define the term **Negative lapse rate**. (2mks)

(b) State **two** reasons why temperature decreases with increase in altitude in the troposphere 4mks)

4. (a) List any **two** features resulting from extrusive volcanic activity (2mks)

(b) Outline **two** effects of vertical earth movement (2mks)

5. The diagram below represents sun's rays reaching different parts of the earth. Use it to answer the questions that follow.



State the reasons why region A experiences low temperatures than region B. (4 marks)

SECTION B

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

6. Study the map of Homa Bay 1:50000 (sheet 129/2) provided and answer the following questions.

(a) (i) Convert the representative fraction scale of the map extract into a statement scale. (lmk)

(ii) Give the six-figure grid reference of Gamba Dam. (lmk)

(iii) Measure the length of the road E117 from the junction in grid square 4841 to the boundary at grid square 5435 (2mks)

(iv) What is the longitudinal extent of the area covered by the map extract? (lmk)

(b) (i) Give **two** methods used in representing relief on the map extract. (2mks)

(ii) What is the approximate height of the Ruri hills at grid square 5138? (lmk)

(iii) Calculate the bearing of line X from Y shown on the map extract. (2mks)

(c) Using a vertical scale of 1cm to represent 50ft.

(i) Draw a cross-section of a pipe constructed between points Y and X (3mks)

(ii) On the cross-section, mark and name the following:

- Sigulu hill
- Loose surface road
- River Aochi (3mks)

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

(d) (i) Explain how relief has influenced settlement in the area covered by the map. (4mks)

(ii) Calculate the area enclosed by Lake Victoria. (3mks)

7. (a) State **four** causes of mechanical weathering (4mks)

(b) (i) Describe the carbonation process of chemical weathering (3mks)

(ii) Name **one** rock that can be weathered through the carbonation process (lmk)

(iii) Name **two** features that can be formed on the earth's surface as the carbonation process of weathering takes place (2mks)

(c) (i) What is an exfoliation dome? (2mks)

(ii) Explain how an exfoliation dome is formed (3mks)

(d) Explain any **five** significance of weathering. (10mks)

8. (a) What is a lake. (2mks)

(b) (i) Name **two** types of lakes formed due to volcanicity. (2mks)

(ii) Explain how Lake Victoria influences the climate of the surrounding area. (6mks)

(c) (i) State **thre**e main reasons why lakes within the Rift Valley are salty. (3mks)

(ii) Name any **three** fresh water lakes in Kenya which are within the Rift Valley

(d)(i) Explain any **four** economic significances of lakes to human activities. (8mks)

(ii) Give **one** negative effect of lakes to man. (1mk)

9. (a) (i) State **two** ways in which wind erodes the surface of the earth in desert regions (2mks)

(ii) Explain **three** ways through which wind transports its load. (6mks)

(b) Using well labeled diagrams, describe how the following desert features are formed.

(i) Zeugen (5mks)

(ii) Rock pedestal (5mks)

(c) (i) What is the name given to rocky desert in the Sahara. (lmk)

(ii) Explain **three** positive effects of desert features to both human and physical environment. (6mks)

10. (a) (i) Outline **two** causes of folding in crustal rocks. (2mks)

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

(b) (i) With the aid of labeled diagrams describe how fold mountains are formed. (8mks)

(ii) Explain significance of folding to human activities. (5mks)

(c) You intend to carry out a field study on features due to folding in a particular area. State three reasons why it would be important for you to conduct a reconnaissance. (4mks)