# GEOGRAPHY PP1 SERIES 1

# EXAMINERS PROJECTION 10 PAPERS


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## GEOGRAPHY PP1 SERIES 1
## EXAMINERS' PROJECTION 10 PAPERS

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# PP1 PROJECTION NO. 01

**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.

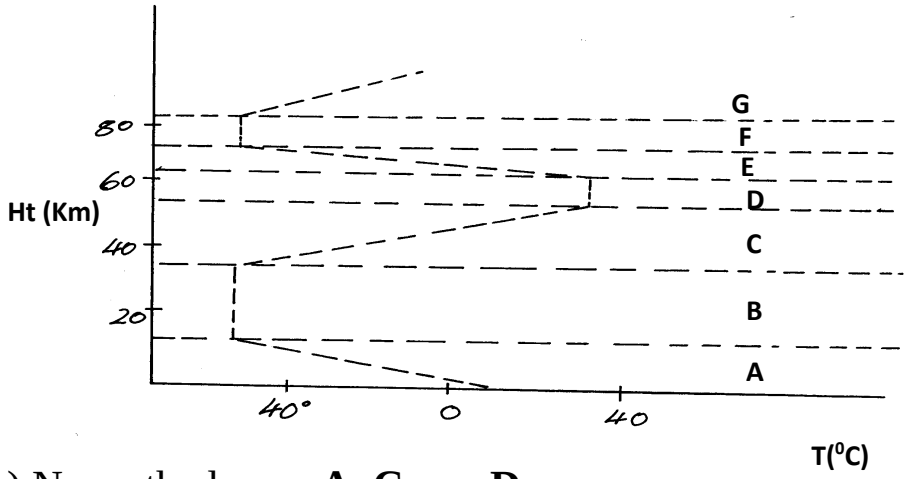
## FOR EXAMINERS USE ONLY

| Question | Maximum score | Candidate's score |
|---|---|---|
| 1- | 80 | |

## SECTION A (25 MARKS)

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

1. The sketch map below shows the layers of the atmosphere.




a) Name the layers **A**, **C** **, D** (3mks)

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b) What is isothermal layer? (2mks)

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2. The table below shows types of igneous rocks.

a) Give an example in each. (3mks)

| **Type** | **Examples** |
|---|---|
| Plutonic | X |
| Hypabyssal | Y |
| Volcanic | Z |

b) How is a plutonic rock formed? (2mks)

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

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b) Describe how an acid lava cone is formed. (3mks)

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4.a) State **three** factors which determine the size of a lake. (3mks)

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b) Give **one** example of each of the following types of lakes. (2mks)

i) Lava dammed Lake ……

ii) Meteorite crater lake ……

5. a) Name **three** types of river erosion. (3mks)

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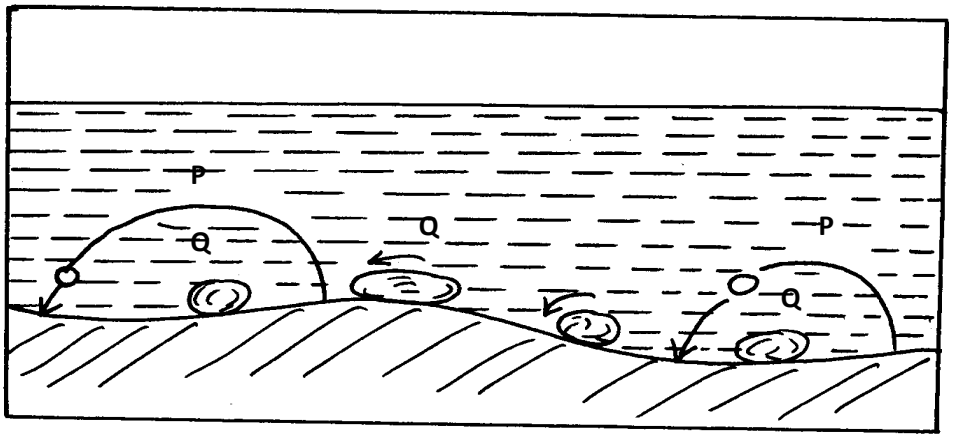
b) The diagram below shows ways through which water transports its load.




Name the **two** ways labelled **P** and **Q.** (2mks)

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## 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) Name **two** scales used in the map. (2mks)

ii) Identify **two** natural features found in the grid square 4711. (2mks)

iii) What is the altitude of the highest point in the area covered by the map. (2mks)

b) i) What is the bearing of the tank at grid square 2726 from the trigonometrical station at grid square 2823. (2mks)

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

c) i) Calculate the area of Kitale municipality. Give your answer in sqkm (2mks)

ii) Draw a rectangle (6cm by 8cm); a reduced map to represent the area bounded by eastings 33 and 39 and northings 11 and 19. On the map mark and name:

- An estate
- road
- A bridge
- A camp

d) i) Citing evidence from the map, identify **four** economic activities in the area covered by the map. (4mks)

e) Identify **three** vegetation types in the area covered by the map. (3mks)

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

ii) Explain why some Lakes in rift valley have fresh water.(4mks)

b) i) Describe how an ox-bow lake is formed (4mks)

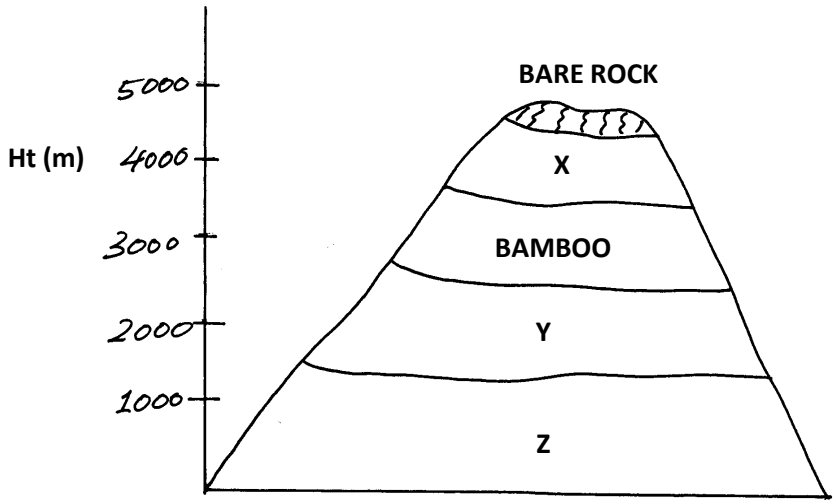
ii) Explain **five** ways in which faulting is of significance to human activities. (10mks)

c) Name man made lakes in the following African rivers.(4mks)

- R. Nile
- R. Tana
- R. Zambezi
- R. Niger

**8.** The diagram below represents zones of natural vegetation on a mountain in Africa.

Use it to answer questions a) i) and ii)



a) i) Name the vegetation zones marked **X,Y** and **Z.** (3mks)

ii) Describe the characteristics of the vegetation type marked **X**.(6mks)

iii) Name the temperate grasslands found in the following countries. (3mks)

- Argentina
- South Africa
- New Zealand

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

c) You are supposed to carry out a field study on the uses of vegetation in the area around your school.

i) State **three** methods you would use to record the information.(3mks)

ii) Give **four** uses of vegetation you are likely to identify during the study. (4mks)

**9.** a) Name **three** types of submerged highland coasts. (3mks)

b) With the aid of labelled diagrams describe the process through which a stump is formed. (6mks)

c) i) State **four** conditions that favour the growth of coral polyps. (4mks)

ii) Explain **three** ways in which coral contributes to the economic development of Kenya. (6mks)

d) What are the characteristics of emerged coasts? (6mks)

**10.** a) i) What is a Karst scenery? (3mks)

ii) Name **two** features found in each of the following parts of a Karst scenery. (2mks)

- Surface - Underground

b) Explain **three** factors which influence the formation of features in the Karst scenery. (6mks)

c) State the significance of a Karst scenery. (4mks)

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

i) Give **three** reasons why you would need to prepare a working schedule. (3mks)

ii) Why do you need a map of the area of study. (2mks)

iii) State **three** recommendations that you would make from your study to assist the local community to rehabilitate the eroded area. (3mks)

# PP1 PROJECTION NO. 02

**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

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|---|---|---|
| 1- | 80 | |

## SECTION A

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

1.(a) Name two forces responsible for the spherical shape of the earth (2mks)

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(b) Give three reasons why interior part of the earth is very hot (3mks)

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2. (a) State three characteristics of cyclonic rainfall (3mks)

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(b) Identify two conditions that favours formation of a Dew (2mks)

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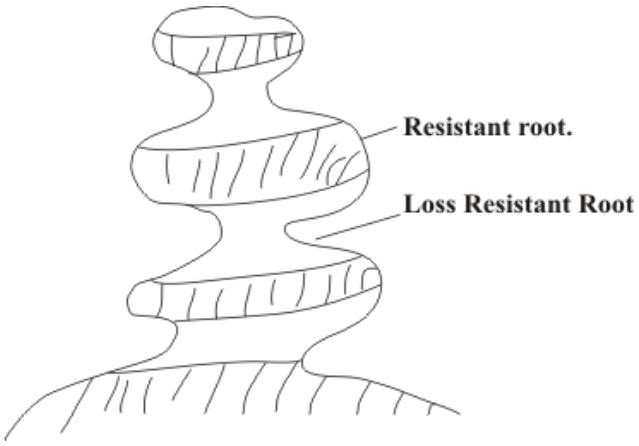
3. The diagram below shows rock pedestal. Use it to answer the questions below.




(a)Name the process through which the wind erodes the above feature (2mks)

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(b) Name other three features formed as a result of wind erosion in the desert (3mks)

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4. (a) What is a river regime (2mks)

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(b) Highlight three features formed in the upper course of the river (3mks)

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5. (a) Name two types of earth movement (2mks)

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(b) State any three causes of earth movement (3mks)

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6. Use the map of Karatina sheet 121/3 (scale 1:50,000) to answer the questions below.

(i) Measure the distance of the district boundary from forest boundary to the southern end of the map (3mks)

(ii) Calculate the area covered by the forest in Kirinyaga district (3mks)

(iii) Find the bearing of Moi University at grid square 1052 (3mks)

(iv) Identify three man made feature in grid square 9649 (3mks)

(v) Describe the drainage of the area covered by the map (3mks)

(vi) Calculate the magnetic declination as at journey 1992 (2mks)

(vii) Citing evidence from the map, give four economic activities in the area covered in the map (4mks)

(viii) Students of Moi University Mt. Kenya campus wanted to carry a field study at Mt.Kenya forest, state four preparations they should make before in actual field study (4mks)

7. (a) Differentiate between rocks and minerals (2mks)

(b) State three characteristics of minerals (3mks)

(c) Name two main types of igneous rocks (2mks)

(d) Explain the formation of mechanical formed sedimentary rocks (5mks)

(e) Explain any four significance of rocks (8mks)

(f) Students of Mwingi School are intending to carry out a field study on rocks

(i) Give two reasons why they will need a map of the area of study (2mks)

(ii) State three problems they are likely to encounter during their field study (3mks)

8. (a) Define the term climate (2mks)

(b) Using a map of Kenya, show the climatic distribution in Kenya (7mks)

(c) State any four characteristics of equatorial climate (4mks)

(d) Account for any four causes of eradity and desertification (4mks)

(e) Explain four causes of climatic change (8mks)

9.(a) Define the term weathering (2mks)

(b) Explain four processes of mechanical weathering (8mks)

(c) Describe two ways in which water moves in ocean and seas (4mks)

(d)Give four characteristics of lakes within the Rift Valley (4mks)

(e) State three economic importance of coastal land forms(3mks)

(g) Form four students carried a field study on coastal land forms.
State four methods they might have used to record their data(4mks)

10. (a) What is soil (2mks)

(b)Using a diagram differentiate between soil profile and soil catena (8mks)

(c) State three classes of soil according to order (3mks)

(d) Explain four ways of conserving soil (8mks)

(e) Form four students wanted to carry out a field study on soil.
. Give four reasons why they should seek permission from
. authorities (4mks)

# PP1 PROJECTION NO. 03

## 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) (i) What name is given to the shape of the earth?(1mk)

(ii) Give the **two** dates in a year when the hours of darkness are equal to the hours of light at the poles. (2mks)

(b) State **two** reasons why the interior of the earth is believed to be hot. (2mks)

2. (a)Give **three** examples of chemically formed sedimentary rocks.(3mks)

(b) Mention **three** changes that occur to sedimentary rocks when exposed to great heat and pressure. (3mks)

3. (a) Give **three** reasons why it is important to study the plate tectonics theory. (3mks)

(b)Name **two** fold mountains formed during the alpine orogeny(2mks)

4. (a) Differentiate between soil profile and soil catena. (2mks)

(b) Give **three** components of soil apart from humus. (3mks)

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

## SECTION B:

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

6. (a) (i) What kind of a map is the Karatina map sheet.(1mk)

(ii) Measure the length of Road D451 from the junction grid reference 870472 to the LC grid reference 861522. Give your answer in kilometers. (2mks)

(iii) Calculate the area of Mount Kenya forest to the East of Easting 02. (2mks)

(iv) Give the latitudinal and longitudinal location of the South West edge of the map. (2mks)

(b) From the marginal information:

(i) Identify **two** districts covered in the map. (2mks)

(ii) Identify **two** man-made features in grid square 8454. (2mks)

(c) Explain **three** factors that influence distribution of settlement in the area covered by the map. (6mks)

(d) Citing evidence from the map.

(i) Identify **two** agricultural activities carried out in the area covered by the map apart from coffee farming. (2mks)

(ii) Explain **three** factors that favour coffee growing in the area covered by the map. (6mks)

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

(ii) With the aid of clearly labeled diagrams, describe the formation of the Rift Valley by compressional theory. (7mks)

(ii) State **two** ways in which faulting influences drainage.(2mks)

(b)Explain why most lakes in the Rift Valley have saline water. (6mks)

(c)Your class undertook a field study on lakes formed through faulting.

(i)Give **two** characteristic features of lakes you may have identified. (2mks)

(ii) State **three** uses of the lakes that you may have found. (3mks)

(iii) Give **two** benefits of studying lakes through field study. (2mks)

8. (a) With the aid of a well labelled diagram, illustrate the hydrological cycle. (5mks)

(b) Describe the following drainage patterns illustrate with clearly labelled diagrams.

(i) Dendritic. (3mks)

(ii) Trellis. (3mks)

(c)(i) State **three** conditions necessary for data formation.(3mks)

(ii)Name the type of delta found on River:

- Tana (1mk)

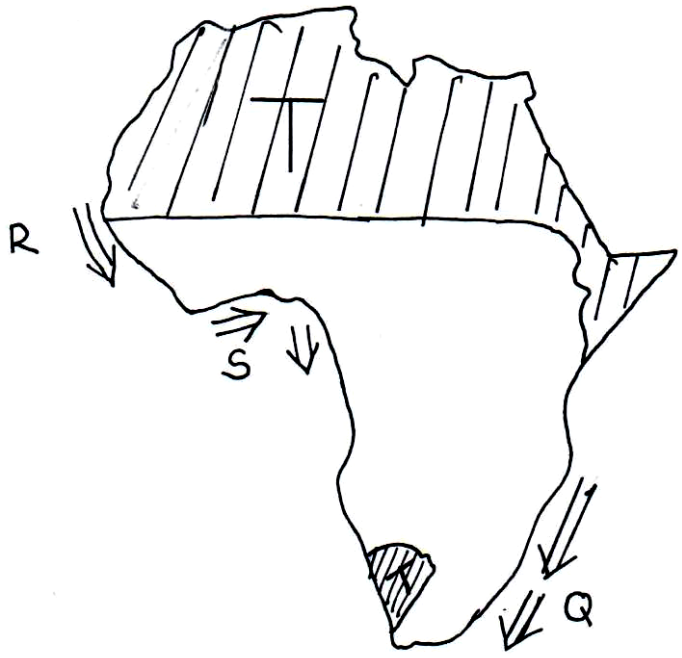
- Omo (1mk)

(d) State **five** characteristics of a flood plain. (5mks)

(e) Describe the formation of an Ox-bow lake. (4mks)

9. (a) What is micro-climate? (2mks)

(b) Use the map of Africa below to answer the questions that follow.



(i) Name the ocean currents marked **R** and **S**. (2mks)

(ii) Explain how the ocean current marked **Q** influence the climate of the adjacent land. (4mks)

(c) Describe the characteristics of the climatic region marked **T**. (5mks)

(d) Apart from ocean currents, explain **three** factors that influence climate. (6mks)

(e) You are planning to carry out field study on the relationship between climate and vegetation.

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

(ii) Give **three** measures you would recommend to combat desertification. (3mks)

10. (a) Name **two** ice capped mountains in Africa. (2mks)

(b) Describe the formation of the following features.

(i) Glacial trough. (3mks)

(ii) Pyramidal peak. (6mks)

(c) Explain **three** factors that influence glacial erosion.(6mks)

(d) Explain **four** ways in which Upland glaciated features are of significance to human activities. (8mks)

# PP1 PROJECTION NO. 04

## 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

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|---|---|---|
| 1- | 80 | |

## SECTION A

1. (i) Differentiate between weather and climate. (2 marks)

   (ii) Outline any three factors that are considered in locating a weather station. (3 marks)

   (iii) Give any three importance of weather focusting. (3 marks)

2. (i) Define the term equinox (2 marks)

   (ii) What is the time at Hola on $40^{o}$E when the time at Tema on $O^{o}$ longitude is 12.00 Noon (2 marks)

3. (i) Name two types of earth movements that take place on the earth crust. (2 marks)

   (ii) Describe the origins of the continents according to the theory of continental drift. (3 marks)

4. (i) Name two types of clouds that give rise to rainfall in tropical regions. (2 marks)

   (ii) Define the term hydrological cycle. (2 marks)

5. a) Study the table below and answer the question.

| Month | J | F | M | A | M | J | J | A | S | O | N | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temperature $^{o}C$ | 29 | 28 | 30 | 30 | 29 | 29 | 29 | 27 | 29 | 30 | 30 | 28 |
| Rainfall in mm | 10 | 9 | 22 | 48 | 26 | 9 | 24 | 10 | 5 | 10 | 18 | 11 |

(i) Calculate the mean annual rainfall. (1 mark)

(ii) What is the annual range of temperature? (1 mark)

(iii) Give two reasons why the top of Mt. Kenya has got no vegetation. (2 marks)

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

6. (i) What is the longitudinal extent of the map: (2 marks)

(ii) Name the two districts from where the map has been taken from. . (2 marks)

(iii) What is the approximate height of the hill at grid reference 047507? (1 mark)

**B.** (i) Give three types of natural vegetation found to the north of northings 60. (3 marks)

(ii) What is the approximate area of Karatina town (municipality) (2 marks)

(iii) Measure the approximate distance of the district boundary not covered by the forest. (2 marks)

(iv) Citing evidence from the map, identify two main cash crops grown in the area covered by the map. (2 marks)

**C.** (i) Citing evidence from the map, explain three factors that favours tea growing in the area covered by the map. (6 marks)

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

7. a) (i) Define the term faulting? (2 marks)

(ii) State any two characteristics of lakes formed due to faulting.

(2 marks)

(iii) With the help of a well labeled diagram, explain how the rift valley is formed through tension. (7 marks)

b) A group of students carried field work in the rift valley around Naivasha.

(i) Give any four preparations that they undertook. (4 marks)

(ii) Give any two reasons why it would be appropriate to divide the students into groups. (2 marks)

(iii) Explain any four importance of faulting to human activities.

(8 marks)

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

b) (i) Name two types of lake formed due to volcanicity. (2 marks)

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

c) (i) State three main reasons why lakes within the Rift Valley are salty. (3 marks)

(ii) Name any three fresh water lakes in Kenya which are within the Rift Valley. (3 marks)

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

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

9. a) (i) Give two ways in which underground water may reach the earth's surface. (2 marks)

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

b) Explain three importance of underground water. (6 marks)

c) (i) Give three factors which influences the development of Karst landscape. (3 marks)

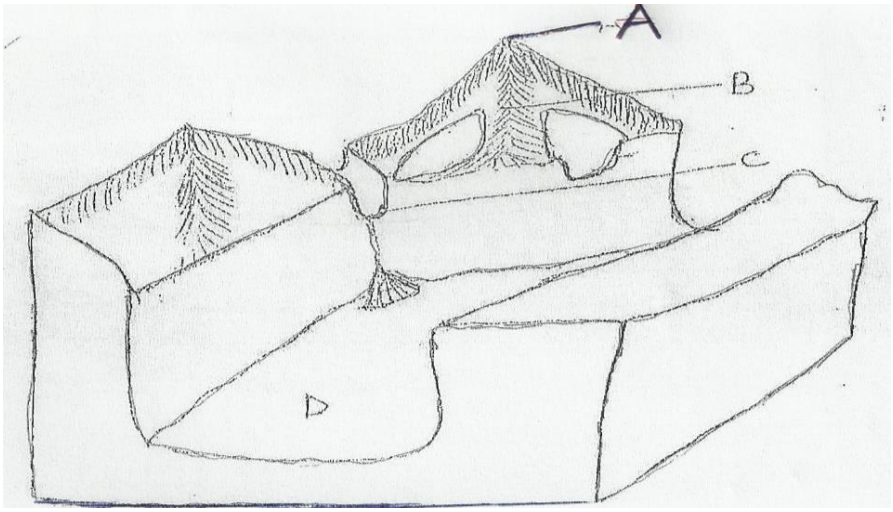
(ii) Explain three reasons why Karst landscape discourages settlement. (6 marks)

e) With an aid of a well labeled diagram describe the formation of a limestone pillar. (5 marks)

10.a) Outline three processes through which ice moves. (3 marks)

b) Explain three factors that influence glacial erosion. (6 marks)

c) Study the diagram below which shows a glaciated highland and answer questions c (i) and (ii)




i) Name the features marked A, B, C and D. (4 marks)

ii) Describe how features A and D were formed. (6 marks)

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

(i) State two disadvantages of using observation as a method of data collection. (2 marks)

(ii) State two problems you are likely to encounter. (2 marks)

(iii) Suggest two economic activities you would recommend to the Government in this area. (2 marks)

# PP1 PROJECTION NO. 05

## 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*

1. a) What is an eclipse (2mks)

   b) State the three characteristics of the earth's core(3mks)

2. a) Define the term longitude (2mks)
   b) The local time of town A $40^0$E is 12noon.
   What will be the local time of B $30^0$E

3. With the aid of a well labelled diagram explain how frontal type of rainfall is formed (3mks)

4. a) State any three factors that influence the development of drainage pattern.(3mks)

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

5. a) Define the term mass wasting (2mks)

b) Explain two ways in which soil creep occurs (4mks)

## Section B

Answer question **six** and any other two questions from this section

6. study the map of Karatina provided(1:50,000) provided and answer the questions that follow

a) i) convert the representative scale of the map to a statement scale (1mk)

ii) Give the four figure grid reference of the cattle dip at Gaturiri (1mk)

iii) Give the latitudinal extent of the area covered by the map (1mk)

iv) Calculate the area covered by the area of the total vegetation found in the area to the east of district boundary from where it touches northing 53 to northing 66 and the vegetation must be above northing 53. (2mks)

b) i) using a vertical scale of 1cm represent 50m, draw a cross section from grid reference 050450 to 050510 (5mks)

ii) On the cross section mark and name

- river (1mk)
- all weather road bound surface C74 (1mk)
- hill (1mk)

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

c) citing evidence from the map, explain two factors that have led to the growth of Mount Kenya Forests(4mks)

d) describe the drainage of the area covered by the map (6mks)

7. a) Differentiate between soil profile and soil catena (2mks)

b) Explain any thee factors that affect soil formation (6mks)

c) Discuss four measures taken to conserve soils (8mks)

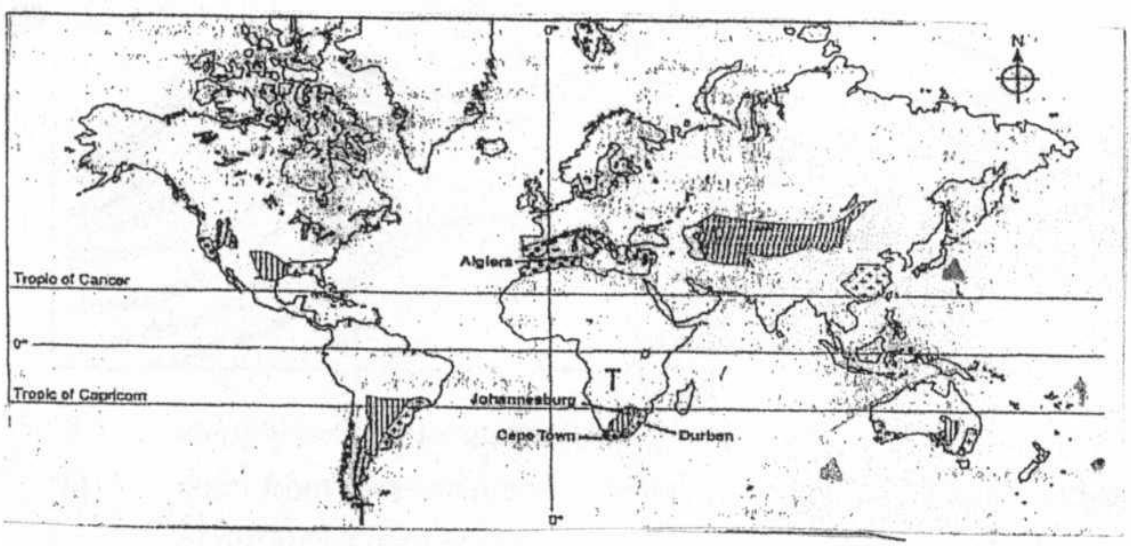
e) Explain how burning of land leads to soil degeneration (4mks)

f) Your class intends to carry out a field study on soils within the school environment

i) state any two methods of data collection you will use(2mks)

ii) List any three methods of data recording you are to use. (3mks)

8. a) The map below shows the distribution of world climatic types. Study it and answer the questions that follow.




i) Name the climatic type labeled T (1mk)

ii) By which other term is this climatic type T is known (1mk)

iii) Describe seven characteristics climatic type T (7mks)

b) Name any four countries where this type of climate T is found (4mks)

c) The table below shows climatic data for station Y. Study it and answer the questions that follow

| Month | J | F | M | A | M | J | J | A | S | O | N | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temp.C | 12 | 13 | 14 | 16 | 19 | 19 | 22 | 25 | 26 | 24 | 20 | 16 |
| 13Rainfall | 113 | 84 | 74 | 41 | 46 | 15 | 2 | 4 | 40 | 78 | 129 | 136 |

i) calculate the mean monthly temperature (2mks)
ii) calculate the annual range of temperature (2mks)
iii) calculate the mean monthly rainfall (2mks)

d) A field study was conducted on the climate of a station Z

i) State three reasons why observation was the best method of collecting the data (3mks)

ii) Identify thee follow up activities the students would have been involved in (3mks)

9. a) describe abrasion processes of glacial erosion (4mks)

b) The diagram below shows a glaciated feature found in lowland.

Study it and answer that question that follow

i) Identify the feature above (1mk)
ii) Apart from abrasion process identify the other glacial process involved in the formation of the above feature (1mk)
iii) Describe four characteristics of the feature shown on the diagram(4mks)
iv) Name one erosional lowland glaciated feature (1mk)

c) Describe how an arête is formed (6mks)

d) Explain four negative effects of glaciated lowland features (8mks)

10.

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

ii) Give three causes of ocean currents.(3mks)

b) State four conditions that favour the growth of polyps.(4mks)

c) With the aid of a well labelled diagram describe how a wave cut plat form is formed.(6mks)

d) Explain how the following factors influence development of coasts

i) Climate (2mks)

ii) Gradient at the coast (2mks)

e) Your class intends to carry out a field study on the features along the coast Kenya.

i) Why would they carry a reconnaissance study (3mks)

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

# PP1 PROJECTION NO. 06

## 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.

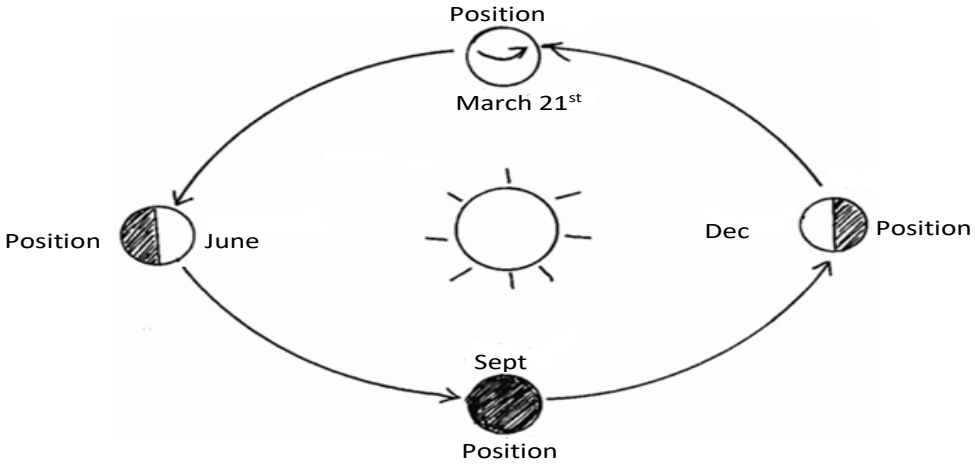
## FOR EXAMINERS USE ONLY

| Question | Maximum score | Candidate's score |
|---|---|---|
| 1- | 80 | |

## SECTION A:

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

1. (a) Use the diagram **below** to answer question a(i) and (ii)




(i) What season does the Northern Hemisphere experience at position **I**? (1mk)

(ii) Which **two** positions does the earth experience equinoxes? (2mks)

(b) State **two** characteristics of the lower mantle. (2mks)

2. (a) Name **two** types of seismic waves. (2mks)

(b) State **three** major earthquake zones of the world. (3mks)

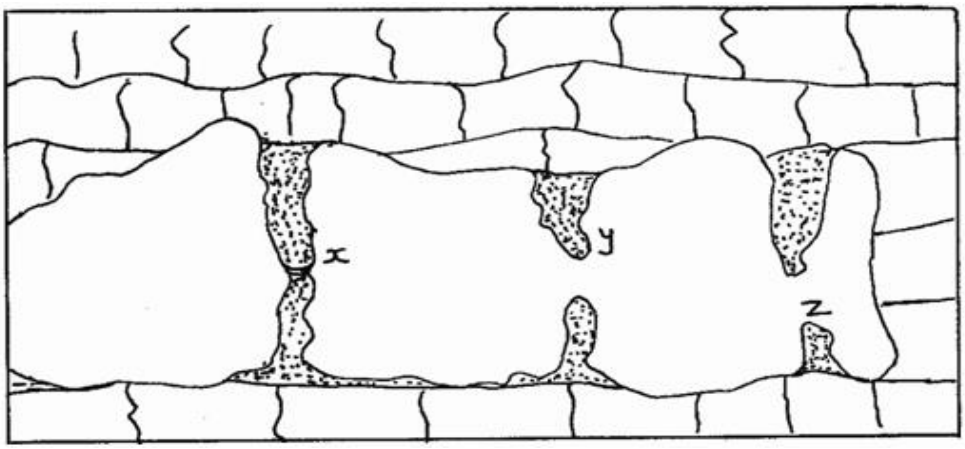
3.(a) Differentiate between weathering and mass wasting. (2mks)

(b) Apart from living organisms give three other factors that influence the rate of weathering. (3mks)

4. (a) Define aridity. (2mks)

(b) State reasons why wind is the most effective agent of erosion in arid areas. (2mks)

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




(a) Name the features marked **X**, **Y** and **Z**. (3mks)

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

## SECTION B:

*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 longitudinal extent of the area covered by the map? (2mks)

(ii) Give the magnetic variation at the time the map was compiled. (2mks)

(iii)Measure the distance in kilometers of the all weather road loose

. surface B10/2 from M.C. Calls Bridge to the road junction at Knights Corner. (2mks)

(b) (i) Using a scale of 1cm to represent 40 metres, draw across-section from grid reference 320230 to grid reference 420230. (4mks)

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

- Sitatunga Swamp (1mk)
- River Saiwa (1mk)
- A hill (1mk)

(iii) Calculate the vertical exaggeration (V.E) of the section. (2mks)

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

(ii)Giving evidences from the area covered by the map explain

**three** factors that favour plantation farming in the area covered by the map. (6mks)

7. (a)(i) Differentiate between weather and climate. (2mks)

(ii) Identify any **three** elements of weather. (3mks)

(b) State the apparatus found in a Stevenson Screen. (3mks)

(c) Describe the factors that influence temperature. (5mks)

(d) The table below shows rainfall and temperature figures of a station in Africa. Use it to answer questions d(i), (ii).

| Month | J | F | M | A | M | J | J | A | S | O | N | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temp. °C | 23 | 24 | 23 | 22 | 19 | 17 | 18 | 19 | 19 | 20 | 22 | 23 |
| Rainfall/mm | 109 | 122 | 130 | 76 | 52 | 34 | 28 | 38 | 70 | 108 | 121 | 120 |

(i) Calculate annual range of temperature (show your calculations). (2mks)

(ii) Calculate the annual rainfall. (2mks)

(e)(i) What is weather forecasting? (2mks)

(ii) Explain the significance of weather forecasting to human activities. (6mks)

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

(ii) Identify **two** types of earth movements. (2mks)

(iii) State **three** causes of earth movement. (3mks)

(b)Describe the continental drift theory in the formation of continents. (5mks)

(c) With aid of diagram describe how the Rift Valley was formed by compression forces. (6mks)

(d) Explain negative effects of faulting and human activities. (8mks)

9. (a) State any **three** factors that influence climate, along the Coast of Kenya. (3mks)

(b)Identify any **three** climatic regions in Kenya. (3mks)

(c)Outline the characteristics of Savanna type of climate. (5mks)

(d) (i) What is climate change. (2mks)

(ii) State the causes of climate change. (4mks)

(iii) Explain the negative effects of climate change. (8mks)

10. (a) Define the term hydrological cycle using a well labelled diagram. (2mks)

(b) Describe the processes through which circulation of water is carried out. (8mks)

(c) Explain the significance of the hydrological cycle. (8mks)

(d) Students from Gawa Secondary are planning to carry out a field study on sources and uses of water around their school.

(i) Identify any **three** activities they would carry out before the actual field study. (3mks)

(ii) Give **four** reasons why it is important to have a working schedule. (4mks)

(iii) State any **three** methods they would use to record data. (3mks)

# PP1 PROJECTION NO. 07

## 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)

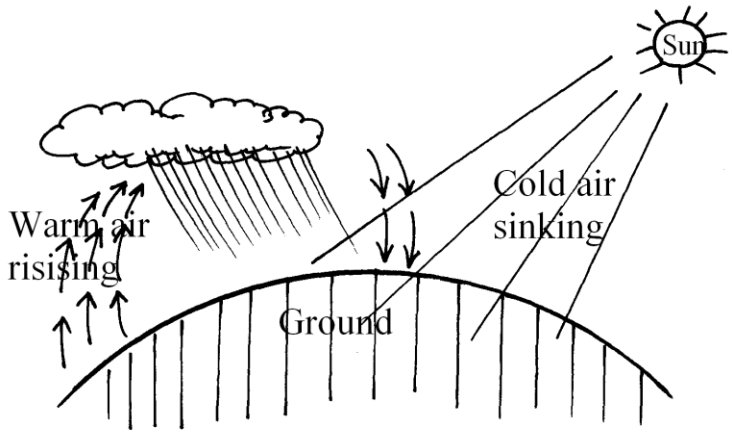
4. (a) Define the following terms of the hydrological cycle

(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)

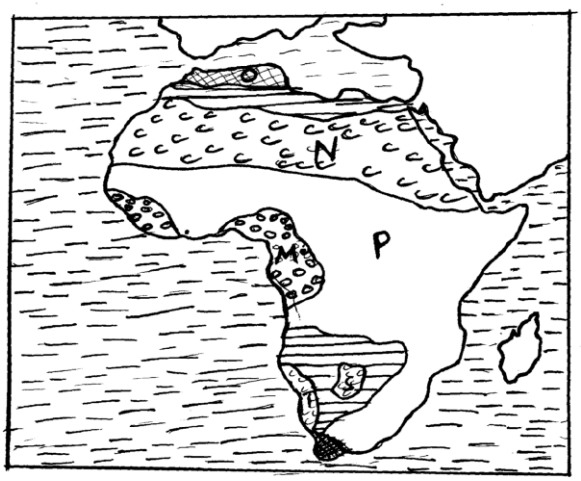
(c) Mention any **five** effects of the process of faulting to human environment (5mks)

(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 tombolo 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. 08

## 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)

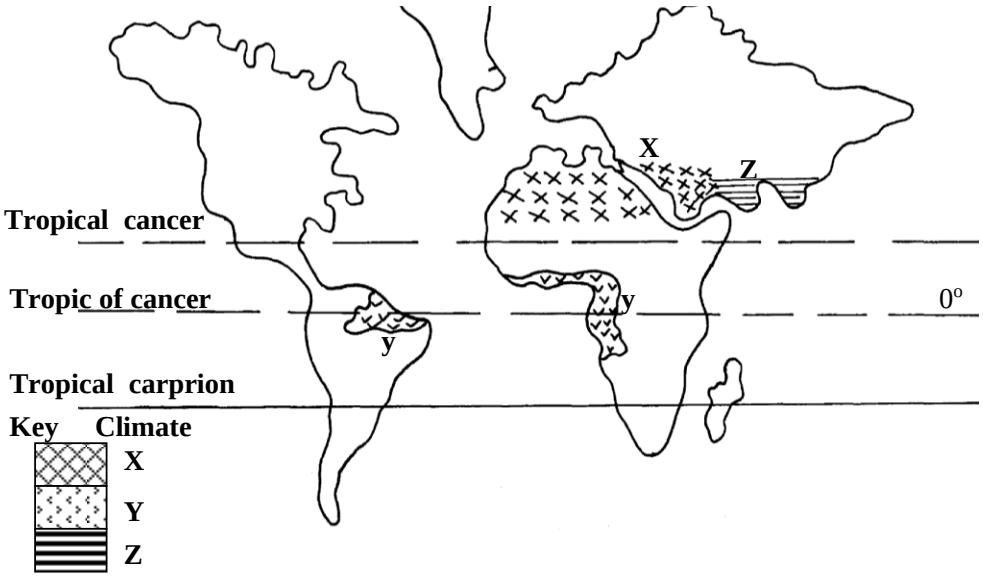
ii) Mention **three** factors that may determine the size of a lake (3mks)

(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. 09

## 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 line of longitude? (2mks)

   (b) Give **three** reasons why the earth has a spherical shape. (3mks)

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

   (b) State **three** characteristics of a composite volcano.(3mks)

3. (a) Distinguish between weathering and mass wasting. (2mks)

   (b) State **three** physical conditions that may influence landslides. (3mks)

4. (a) State **three** ways in which wind transport the load.(3mks)

   (b) Briefly describe carbonation as a process of chemical weathering. (3mks)

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

   (b) State **three** ways in which climate influences desert vegetation. (2mks)

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

(ii) What is the magnetic variation of the map of Karatina provided? (1mk)

(iii) Give the latitudinal extent of the area covered by the map extract. (2mks)

(b) (i) Reduce the area to the East of Easting 93 and North of Northing 56 by half. (1mk)

On the reduced map, mark and name the following:-

- Mt. Kenya forest. (1mk)
- District boundary. (1mk)

(ii) What is the scale of your reduced map? (2mks)

(c) Citing evidence from the map, state four economic activities in the area. (4mks)

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

(e) Citing evidence from the map explain **three** factors that favour growing of tea in Karatina area. (6mks)

7. (a) (i) Differentiate between weather and climate. (2mks)

(ii) Describe how the following conditions influence climate of a place. (2mks)

- Altitude.
- Ocean currents.

(b) The table below represents rainfall and temperature of station Y. Use it to answer questions (i) and (ii).

**Station Y**

| Months | J | F | M | A | M | J | J | A | S | O | N | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Temperature °C | 30 | 31 | 31 | 31 | 30 | 29 | 28 | 29 | 29 | 29 | 29 | 30 |
| Rainfall (mm) | 250 | 250 | 325 | 300 | 213 | 25 | 25 | 25 | 100 | 275 | 380 | 200 |

(i) Calculate the mean annual range of temperature of the station. (2mks)

(ii) Calculate the annual rainfall for station **Y**. (2mks)

(iii) Calculate the average rainfall for station **Y**. (2mks)

(c) Describe the climatic characteristics of station **Y**. (6mks)

(d) (i) Using a well labelled diagram, describe how relief rainfall is formed. (6mks)

(ii) State **three** significance of weather forecasting to human activities. (3mks)

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

(ii) Name **three** ways through which lakes are formed. (3mks)

(iii) List **three** sources of Lake Water. (3mks)

(b) By use of a diagram describe how L. Victoria was formed. (4mks)

(c) Explain **two** reasons why some Lakes in the Rift Valley have fresh water. (4mks)

(d) State **three** economic significance of Lakes. (3mks)

(e) Students from your school intends to carry out a field study on Lakes.

(i) State **two** objective for their study. (2mks)

(ii) Identify **two** methods they will use to record the data collected. (2mks)

(iii) Which human activity might they have found to be affecting the Lakes? (2mks)

9.(a) (i) What are tides? (2mks)

(ii) Give **three** causes of ocean currents. (3mks)

(iii) Name **three** ocean currents along the Western Coast of Africa. (3mks)

(b) (i) State **three** characteristics of submerged lowland Coast of Africa. (3mks)

(ii) Explain **three** factors that determine the rate of Coastal erosion. (6mks)

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

(8mks)

10.(a) (i) What is soil catena? (2mks)

(ii) State **three** characteristics of the soils found in the arid regions. (3mks)

(b) Give **three** factors that determine the colour of the soil. (3mks)

(c) Describe how laterization occurs. (6mks)

(d) Explain how the following – farming practices cause soil erosion.

(i) Burning. (2mks)

(ii) Continuous application of fertilizer. (2mks)

(iii) Monoculture. (2mks)

(e) Students from your school intend to carry out a field study on soils.

(i) Give **two** equipments or materials they are likely to carry to facilitate
their study. (2mks)

(ii) State **three** follow-up activities they will be involved . .

. in. (3mks)

# PP1 PROJECTION NO. 10

## 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 | |

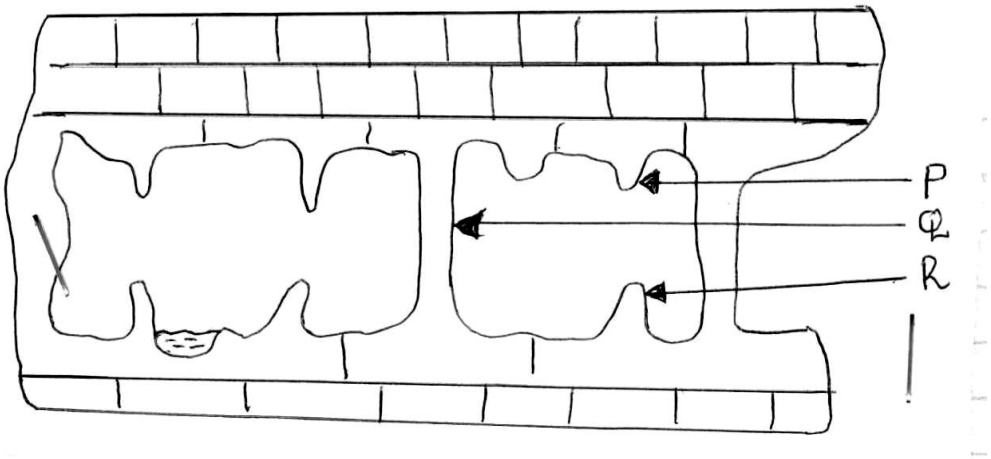
## SECTION A

***Answer ALL Questions.***

1. (a) What is solstice? (1mk)
   (b) Give the date when summer solstice occurs. (1mk)
   (c) State **three** proofs to show that the earth is spherical. (3mks)

2. (a) Name **two** factors that influence atmospheric pressure. (2mks)
   (b) State **three** characteristics of inter-tropical convergence zone. (3mks)

3. The diagram below represents some features formed in Karst landscape.




   (a) State the features labelled P, Q and R. (3mks)
   (b) State **two** conditions for the formation of an artesian well / basin. (2mks)

4. (a) State **two** characteristics of intrusive igneous rocks. (2mks)
   (b) Name **three** methods used to estimate the age of rocks. (3mks)

5. (a) State **three** ways through which rivers transport its load. (3mks)
   (b) Give **two** effects of earthquakes in built-up areas. (2mks)

## SECTION B

**Answer question 6 and any other two questions in this section**

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

(a) (i) Give the magnetic variation of the area covered by the map. (1mk)

(ii) Give **two** methods used to represent relief on the map provided. (2mks)

(iii) Calculate the area of Mount Kenya Forest in Kirinyaga District. (2mks)

(b) Give **three** social services provided at Tumu Tumu town. (3mks)

(c) Draw a cross-section along Northings 50 from Eastings 92 to 98. (3mks)

(i) On the cross-section mark the following features: (3mks)

- All Weather Road
- River Karuru
- District boundary

(ii) Calculate the vertical exaggeration (V.E) (2mks)

(iii) Determine the inter-visibility of the cross-section. (1mk)

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

(e) Give the highest and lowest point of the area covered by the map. (2mks)

7. (a) (i) Apart from Rift Valley, name **two** other relief features that were formed as a result of faulting. (2mks)

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

(b) Explain **four** effects of faulting. (8mks)

(c) Students are planning to carry out a field study in an area affected by faulting.

(i) State **four** reasons why it is important for the students to have a pre-visit of the area. (4mks)

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

8. (a) (i) What is the difference between weathering and mass wasting? (2mks)

(ii) Apart from plants, give **three** other factors that influence the rate of weathering. (3mks)

(iii) Explain **two** ways in which plants cause weathering.(4mks)

(b) (i) List **two** types of mass wasting other than soil creep.(2mks)

(ii) Explain **three** factors that cause soil creep. (6mks)

(c) Explain **four** effects of mass wasting on the environment. (8mks)

9. (a) What is glaciations? (2mks)

(b) State the **two** conditions that favour formation of a glacier. (2mks)

(c) (i) Name **three** processes through which ice moves. (3mks)

(ii) Explain **three** processes through which glacier erodes the surface. (6mks)

(d) Describe the formation of the following features:

(i) Roche Mountonée (4mks)

(ii) Rock basin (4mks)

(e) Explain **two** negative effects of glaciations on the physical environment. (4mks)

10. (a) What is soil catena? (2mks)

(b) Explain the following leaching processes:

(i) Laterisation. (3mks)

(ii) Podzolisation. (3mks)

(c) (i) State **three** ways in which humus improves the quality of soil. (3mks)

(ii) Name **three** types of soil according to structure. (3mks)

(d) Explain how the following factors cause loss of soil fertility:

(i) Change in soil pH. (2mks)

(ii) Irrigation in arid and semi arid regions. (2mks)

(iii) Destruction of soil structure. (2mks)

(e) You have been asked to carry out a field study in causes of soil erosion in a region near your school.

(i) Mention **two** methods you would use to collect data during the study. (2mks)

(ii) Mention **two** activities you would undertake during the field study. (2mks)

(iii) Mention **one** follow up activity you would carry out after the field study.(1mk)