

GEOGRAPHY PP1 SERIES 4

EXAMINERS PROJECTION 10 PAPERS



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GEOGRAPHY PP1 SERIES 4 EXAMINERS' PROJECTION 10 PAPERS

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PP1 PROJECTION NO. 31

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
- (f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer all the questions in this section .

1.a) Name any **two** isothermic layers of the atmosphere. (2mks)

b) (i) State any **one** reason why the stratosphere experiences negative lapse rate. (2mks)

(ii) Name the weather instruments used in measuring the rate of evaporation in a weather station. (1mk)

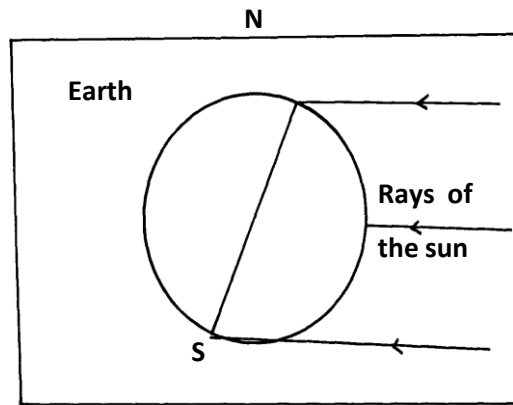
2. a) State **three** characteristics of the Mantle layer of the Earth. (3mks)

b) Give **two** reasons why the centre of the earth is very hot. (2mks)

3 a) Give any **two** landform due to chemical weathering. (2mks)

b) Briefly describe how climate influences the rate of weathering. (3mks)

4 a) The diagram below shows the position of the Earth during revolution. Use it to answer questions (a) (i) and (ii)



(i) Name the season experienced in the southern Hemisphere when the Earth is in this position. (1mk)

(ii) Name the latitude at which the sun is overhead when the Earth is in this position. (1mk)

b) Apart from causing day and night, state any three results of the Earth's rotation. (3mks)

5 a) Name **two** landforms likely to be found in the extensional plate boundaries. (2mks)

b) State any **three** proofs that support the theory of the drifting of continents. (3mks)

SECTION B

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

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

(a)(i) Give the grid reference for the point marked Y on the line YX.
(1mk)

(ii) Measure the distance along the main track (motorable) from GRID 440332 to GRID 480300 (2mks)

Give your answer in kilometers.

(iii) Give any **two** indices to the adjoining Sheet of the map extract.
(2mks)

(iv) Calculate the Magnetic declination of the map extract. (2mks)

b) (i) Draw cross section along the line marked YX use the vertical scale of 1cm rep 50m. (4mks)

(ii) Calculate:

- Vertical Exaggeration of the cross section. (2mks)
- The Gradient of the cross section. (2mks)

c) (i) Citing evidence from the map, give two factors influencing the distribution of vegetation in this area covered by the map. (2mks)

d) Students from Kisumu West Secondary schools carried out a field study in the area covered by the map.

(i) Which **two** depositional landforms did they identify in the lower course of river Rangwena. (2mks)

(ii) State any **one** null hypothesis for the study. (1mk)

(iii) Which one method were they likely to use in presenting their data. (1mks)

7 The diagram below shows world distribution of fold mountains



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

a) (i) Name the fold mountains marked **A,B,C,D** and **E** (4mks)

(ii) Which of the **two** fold mountains mentioned above were formed during the Alphine (young) fold mountain periods? (2mks)

b) (i) Briefly describe the process of fold mountain formations. (6mks)

(ii) Other than fold mountains name any three landforms due to folding. (3mks)

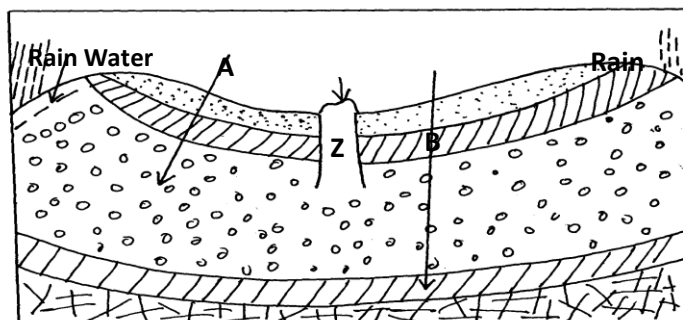
c) State any **four** positive significance of folding. (4mks)

d) Students from Kisumu West schools carried out a field study on an area where folding had taken place.

- (i) Give **three** reasons why it was necessary for them to make a working schedule. (3mks)
- (ii) State any **one** objective for their study. (1mk)
- (iii) Which **two** methods did they employ in data collection? (2mks)

8. a) (i) Distinguish between an ocean and sea. (1mk)
- (ii) Give **two** reasons why some rift valley lakes are fresh. (2mks)
- (iii) State **two** ways in which lakes influence the natural environment. (2mks)
- b) Explain how each of the following has affected lakes in Kenya .
- (i) Deforestation . (2mks)
- (ii) Industrialisation. (2mks)
- (iii) Water weeds (2mks)

c) The diagram below shows an Artesian basin. Use it to answer questions C (i) and (ii)



(i) Name the type of rocks marked **A** and **B**. (2mks)

(ii) Name the well marked **Z**. (1mk)

(iii) Identify **three** levels of zones of saturation within underground water. (3mks)

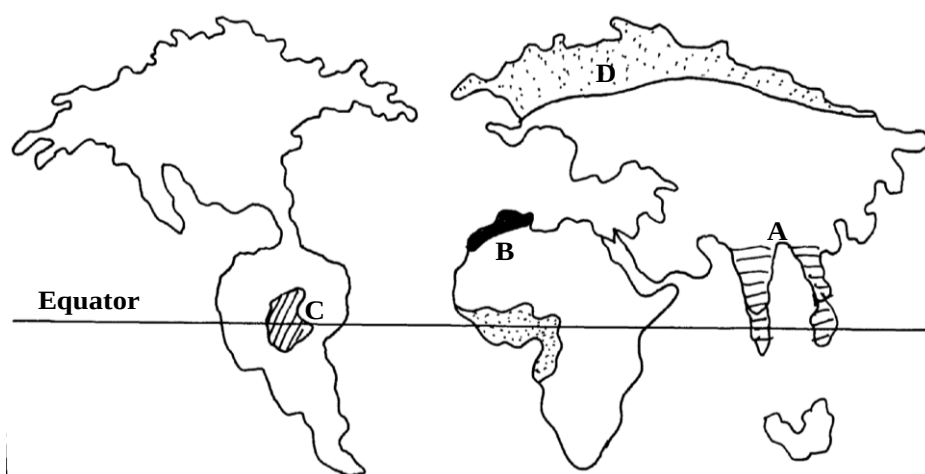
(iv) Explain any two ways in which a spring may form. (4mks)

d) Students from Ramogi secondary school carried out a field study where underground water had been exposed.

(i) State **two** basic sources of water they may have observed. (3mks)

(ii) Give **two** reasons for carrying out a reconnaissance survey. (2mks)

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



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

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

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

(ii) Briefly explain microclimate. (4mks)

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

(ii) Study the table below and use it to answer questions (ii), (iii) and (iv)

Station Y

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

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

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

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

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

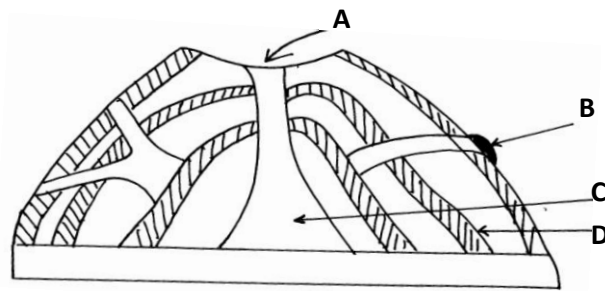
(ii) Name any **one** Greenhouse gases. (1mk)

10a) (i) With the help of a well labelled diagram describe the formation of the following intrusive landforms. (8mks)

- Lopolith
- Batholith

(i) Distinguish between vulcanicity and volcanicity. (2mks)

b) Use the diagram below to answer question (i) (ii) and (iii)



(i) Name the parts marked A,B ,C and D (4mks)

(ii) Identify the type of volcano represented by the diagram above.

(1mk)

(iii) Explain how the above volcanic feature is formed. (4mks)

c) State **four** significance of vulcanicity. (4mks)

d) Students from Kisumu West district carried out a field study on vulcanicity within the District.

(i) What **two** problems did they encounter. (2mks)

PP1 PROJECTION NO. 32

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
- (f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A

1. State **three** conditions considered in choosing a suitable site for a weather station. (3mks)

2. (a) Give the reason why air cools as it rises. (2mks)
(b) Give **three** reasons why weather forecasting is important. (3mks)

3. (a) How is an oasis formed? (3mks)
(b) State **four** characteristics of the hot desert climate. (4mks)

4. (a) list **three** external land forming processes which lead to the formation of lakes. (3mks)
(b) State the **two** ways in which lakes influence the natural environment. (2mks)

5. (a) Give **three** reasons why the interior of the earth is still hot. (3mks)
(b) Outline **two** factors which influence the salinity of ocean water. (2mks)

SECTION B

Answer question 6 and any other TWO questions from this section

6. Study the map provided (SAMIA 1:50000) and answer the following questions.
- (a)(i) What is the six figure grid reference of the peak on wanga hill? (1mk)
- (ii) Name one man-made feature found in the grid square 3509. (1mk)
- (iii) What is the bearing of the point marked X from the point marked Y? (2mks)
- (iv) What is the area of Lake Kanyaboli shown on the map? (2mks)
- (v) What is the distance in kilometres of all weather loose surface road (C522) from the junction at grid reference 128158 to the junction near namalo school? (2mks)
- (b) Draw a rectangle 14cm by 12cm to represent the area west of easting 19 and north of northing 21. On the triangle mark and name:-
- (i) Lake Victoria. (1mrk)
- (ii) A ridge. (1mrk)
- (iii) The all weather loose surface road (C523). (1mrk)
- (iv) A seasonal swamp. (1mrk)
- (c)(i) Citing evidence from the map, name two economic activities carried out in the area covered by the map. (2mks)
- (ii) Explain three factors that influence settlement in the area covered by the map. (6mks)
- (d) Students of Ukwala School carried out a field study along the course of river nzoia. Name four natural features they observed along the river course. (4mks)

7. (a) State **three** characteristics of the inter-tropical convergence zone (ITCZ). (3mks)
- (b) With the aid of a labelled diagram, describe how relief rainfall is formed. (6mks)
- (c) Explain **three** factors that have led to a decline of the natural grasslands in Kenya (6mks)
- (d) You are required to carry out a field study to determine the relationship between climate and vegetation in your district
- (i) Give **three** reasons why you would need a map of the district. (3mks)
- (ii) Name **two** sampling techniques you are likely to use during the field study. (2mks)
- (iii) Give **two** reasons why sampling would be appropriate for the study. (2mks)
- (iv) State **three** methods you would use to record data during the field study. (3mks)
8. (a)(i) Differentiate between aridity and desertification.(2mks)
- (ii) Name two types of desert surfaces. (2mks)
- (b) Explain **three** reasons why wind is a dominant agent of erosion in hot deserts. (6mks)

(c) Describe **two** processes of wind erosion in deserts. (4mks)

(d) (i) Name **three** types of sand dunes. (3mks)

(ii) Describe how loess feature is formed. (4mks)

(e) Students from Chalbi secondary school carried out a field study on water erosion near their school.

(i) Name **two** features they identified. (2mks)

(ii) State **two** problems they could have encountered during their field study. (2mks)

9. (a) State **four** types of faults. (4mks)

(b) Explain **three** ways in which faulting can influence drainage systems. (6mks)

(c) Describe the effect of a rift valley on the following:-

(i) Transport. (3mks)

(ii) Agriculture. (3mks)

(d) (i) Describe how block mountains influence climate. (4mks)

(ii) Give **three** significance of faulting to human activities. (3mks)

(e) Differentiate between symmetrical folds and asymmetrical folds. (2mks)

10. (a) What is the difference between weathering and mass wasting?

(2mks)

(b) Give two processes involved in each of the following types of weathering:-

Physical weathering. (2mks)

(i) Chemical weathering. (2mks)

(c) (i) Apart from plants, give four other factors that influence the rate of weathering. (4mks)

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

(d) Describe how an exfoliation dome is formed. (5mks)

(e) Explain **three** effects of mass wasting on the environment. (6mks)

PP1 PROJECTION NO. 33

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
- (f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer all questions in this section

1. (a) Name **two** minerals of the inner core of the earth (2mks)
(b) State **three** forces that give the earth its geoid shape (3mks)

2. (a) Distinguish between Salinas and playas (2mks)
(b) Name **three** sources of underground water (3mks)

3. (a) Name **two** types of mountain vegetation (2mks)
(b) Identify **three** factors that influence mountain vegetation (3mks)

4. (a) Define the term tsunami (2mks)
(b) State **three** negative effects of tsunami (3mks)

5. (a) State **two** factors that influence landslides (2mks)
(b) Name the main planetary winds in the Northern hemisphere (3mks)

SECTION B

Answer question 6 and any other two questions from this section

6. Study the map of Homa bay (1:50,000) sheet 129/2 provided and answer the following questions
- (a) (i) Give the six grid reference of Nyalkinyi Dam on the North Eastern part of the map (2mk)
- (ii) What is the height of the trigonometrical station at grid reference 5138 (2mks)
- (iii) What is the distance in kilometers along the national reserve boundary on the South west part (2mks)
- (iv) Calculate the area of Olambwe valley national reserve (2mks)
- (v) What is the index of the adjoining sheet to the East of the area covered by the map (1mk)
- (b) (i) Describe the relief of the area covered by the map (4mks)
- (ii) Citing evidence from the map give **three** social services provided in the area covered by the map (3mks)
- (c) Students from God Joje school carried out a field study on urbanization
- (i) Explain the factors they identified that favoured the location of Homabay township (6mks)
- (ii) Give **three** problems they are likely to have encountered (3mks)

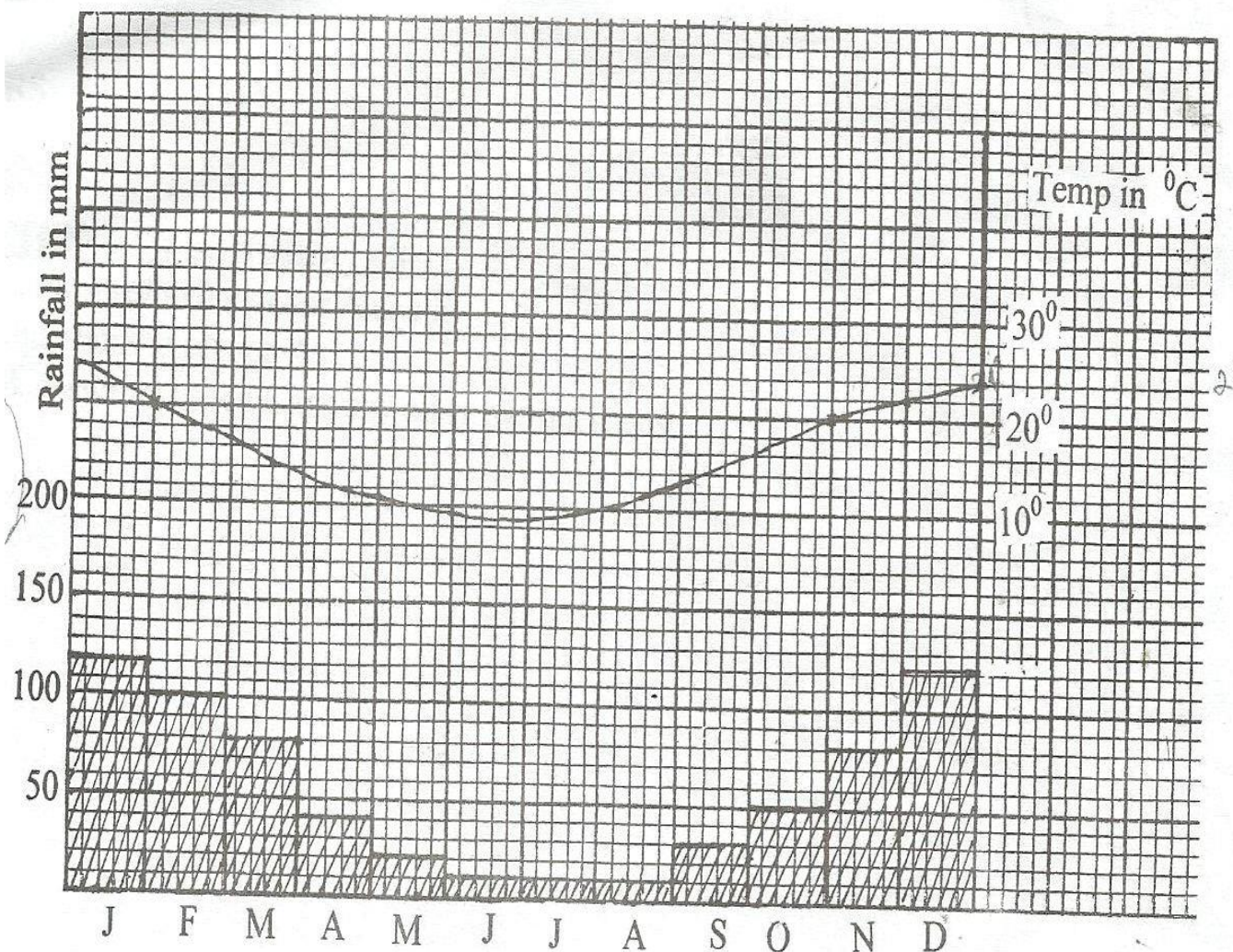
7. (a) (i) What is biological weathering (1mk)
- (ii) Explain **three** causes of biological weathering (6mks)
- (b) Explain **two** factors that influence weathering (4mks)
- (c) Describe the following chemical weathering processes
- (i) Hydration (3mks)
- (ii) Oxidation (3mks)
- (iii) Carbonation (3mks)
- (d) Students from your class intends to carry out a field study in Murang'a county
- (i) Give **three** reasons why reconnaissance will be important (3mks)
- (ii) State **two** methods they would use to record the information collected (2mks)
8. (a) (i) Distinguish between a solfatara and a mofette (2mks)
- (ii) Name **two** areas in Kenya where geysers are found (2mks)
- (iii) State **three** economic benefits of geysers (3mks)
- (b) With the aid of well labelled diagrams describe how the following features are formed

(i) Volcanic plug (6mks)

(ii) Caldera (through violent explosion) (6mks)

(c) Explain **three** negative effects of vulcanicity in Kenya (6mks)

9. (a) Study the graph below and answer the questions that follow



(i) Describe the characteristics of the climate represented on the graph (5mks)

(ii) State **three** characteristics of natural vegetation likely to be found in the region

- represented by the graph (3mks)
- (b) Explain **four** factors that influence climate (8mks)
- (c) (i) Define climate change (2mks)
- (ii) Give **three** natural causes of climate change (3mks)
- (d) How has climate change affected the environment (4mks)
10. (a) Give the main types of desert surfaces (3mks)
- (b) Describe how each of the following features are formed by water action in the desert
- (i) Wadis (3mks)
- (ii) Mesas and buttes (4mks)
- (c) Explain **three** ways through which wind transport its load (6mks)
- (d) Students from a school in Garissa plan to undertake a field study in desert region in Kenya
- (i) Formulate **three** hypotheses they would have for the study (3mks)
- (ii) Give **three** wind depositional features they may have identified (3mks)
- (iii) Name **three** secondary sources of data they would use to collect the information (3 mks)

PP1 PROJECTION NO. 34

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
- (d) All answers must be written in the answer booklet provided.
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FOR EXAMINERS USE ONLY

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1-	80	

SECTION A

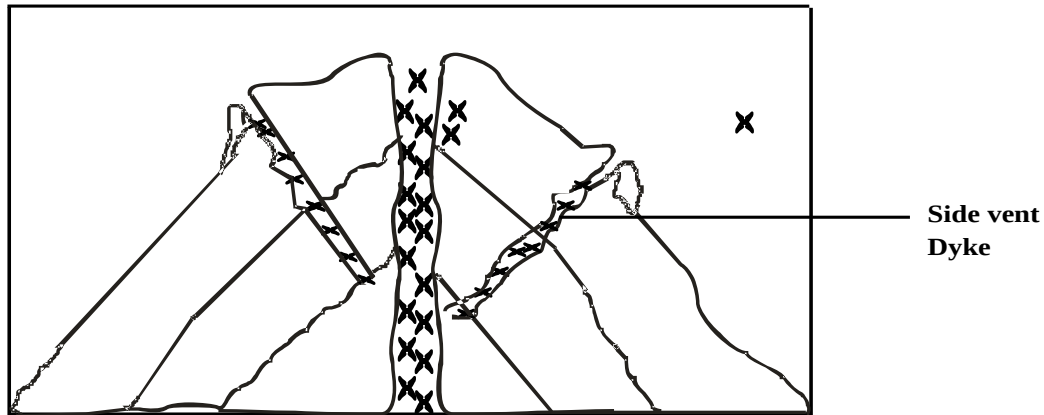
Answer all questions in this section

1. a) State **three** effects of the revolution of the earth. (3 Marks)

b) What is the longitude of a place 'M' whose local time is 9.00Am.
If the local time of the Greenwich meridian (prime meridian) 0^0 is noon? (2 Marks)
2. a) State **two** factors that determine the ease and degree at which rocks change during metamorphism. (2 Marks)

b) Name **three** main classes of sedimentary rocks. (3 Marks)
3. a) State how the following forces influence the shape of the earth.
 - i) Force of gravity (1 Mark)
 - ii) Centripetal force (1 Mark)
 - iii) Centrifugal force (1 Mark)
b) State **two** proofs that show that the earth is spherical (2 Marks)

4. Study the diagram provided and answer the questions below.



a) Name the feature drawn below. (1 Mark)

b) i) State **three** ways through which Mount Kenya has influenced the drainage of the area. (3 Marks)
ii) Define climate change. (1 Mark)

5. a) Name **three** features formed by wind erosion in deserts. (3 Marks)

b) State **two** factors which influence wind transportation. (2 Marks)

SECTION B

Answer questions 6 and any other two

Study the map of Homa Bay sheet 129/2 provided and answer the questions that follow.

6. a) i) Name the COUNTY administrative boundary of Kenya covered by the map of HOMA BAY. (1 Mark)

ii) Give the value of the grid square enclosing God Nyamjini 129T35 O. (1 Mark)

iii) What is the area in kilometer square of the area covered by OLAMBWE VALLEY NATIONAL RESERVE? (2 Marks)

b) i) Draw across section between grid references 610350 and 660350. Use v.scale of 1cm represents 100ft. (7 Marks)

ii) On the drawn cross section, mark and label the following features. (3 Marks)

- Kanyabala forest
- River hogo
- Houses

c) Describe the relief of the area covered by the map. (6 Marks)

d) A group of students carried out a field study of the landscape in the area to the north of northing 42 and to the west of easting 50.

i) Name **one** physical landform and a drainage feature they identified. (2 Marks)

ii) State **two** problems they might have encountered when carrying out the study. (2 Marks)

iii) Give **one** advantage of studying landscape through fieldwork. (1 Mark)

7. a) What is a lake? (2 Marks)

b) Name **four** sources of lake water. (4 Marks)

c) i) Describe how Lake Victoria was formed. (5 Marks)

ii) Explain **four** ways which Lake Victoria has modified the climate of the surrounding areas. (8 Marks)

d) i) State why some lakes in the Rift Valley of Kenya have fresh water. (5 Marks)

ii) What is the effect of deforestation on lakes in Kenya? (1 Mark)

8. a) Define the term aridity. (1 Mark)

b) Describe the following wind erosion processes in arid areas.

i) Deflation. (2 Marks)

ii) Attrition. (2 Marks)

c) State and explain **three** factors that influence wind transportation. (6 Marks)

d) Explain the formation of zeugen. (5 Marks)

- e) You are supposed to carry out a field of a semi arid area in Kenya.
- i) Name **two** features you would identify formed as a result of water erosion in the area. (2 Marks)
 - ii) State **two** ways through which you would prepare yourself for the field study. (2 Marks)
 - iii) What information would you collect through observation that would indicate that area is turning into a desert?(2 Marks)
 - iv) State **three** measures you would recommend to be put in place to control desertification in the area. (3 Marks)
9. a) i) Distinguish between an acid lava dome and plug dome.(2 Marks)
- ii) Cure **three** examples of acid lava domes found in Africa.(3 Marks)
- b) Describe how the following features are formed
- i) A crater. (5 Marks)
 - ii) A basic lava dome. (5 Marks)
- c) Explain **five** ways in which vulcanicity is of benefit to human activities. (10 Marks)

10. a) Define the term weather? (2 Marks)

b) i) List down **three** main process through which the atmosphere is heated. (3 Marks)

ii) Name **four** factors that influence the temperature of a place (4 Marks)

c) State **four** precaution to be taken when sitting a weather station. (4 Marks)

d) Write down **three** characteristics associated with inter tropical convergence zone ITCZ(3 Marks)

e) i) What is natural vegetation? (1 Mark)

ii) Explain **four** ways on how savanna vegetation is adapted to the physical and human environment. (8 Marks)

PP1 PROJECTION NO. 35

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
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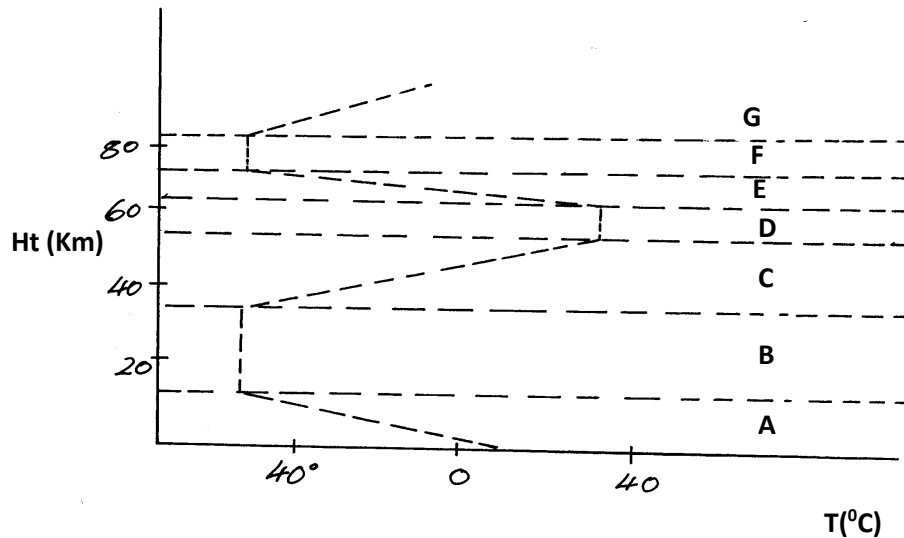
FOR EXAMINERS USE ONLY

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.

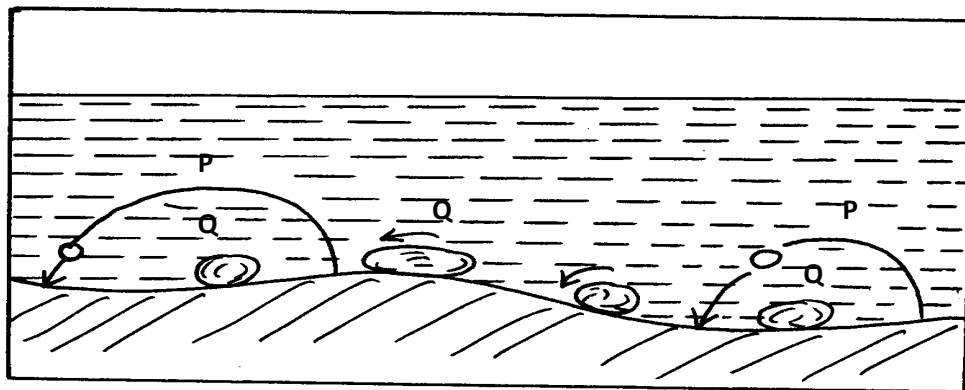


- a) Name the layers **A, C, D** (3mks)
- b) What is isothermal layer? (2mks)
2. The table below shows types of igneous rocks.
- a) Give an example in each. (3mks)

Type	Examples
Plutonic	X
Hypabyssal	Y
Volcanic	Z

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

3. a) What is volcanicity? (2mks)
- b) Describe how an acid lava cone is formed. (3mks)
- 4.a) State **three** factors which determine the size of a lake. (3mks)
- 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)
- b) The diagram below shows ways through which water transports its load.



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

SECTION B (75 MARKS)

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

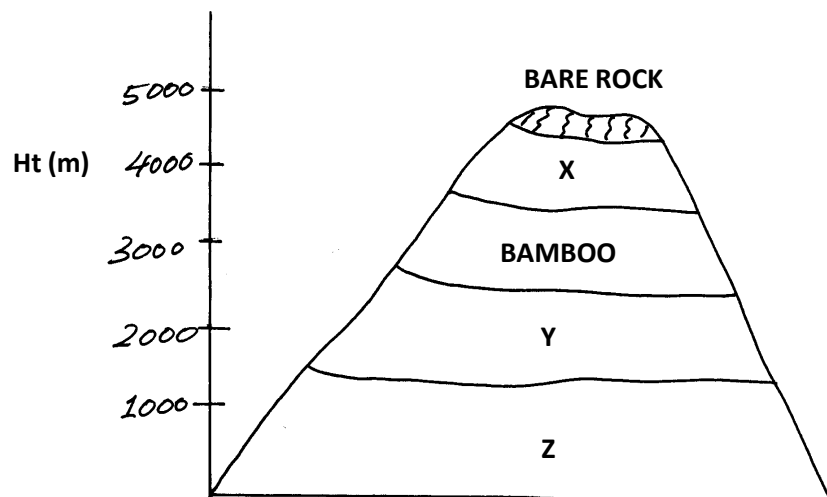
6. Study the map of Kitale 1: 50,000 (sheet 75/3) provided and answer the following questions.

- a) i) 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)
- f) 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. 36

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
- (f) Candidates should answer the questions in English.

FOR EXAMINERS USE ONLY

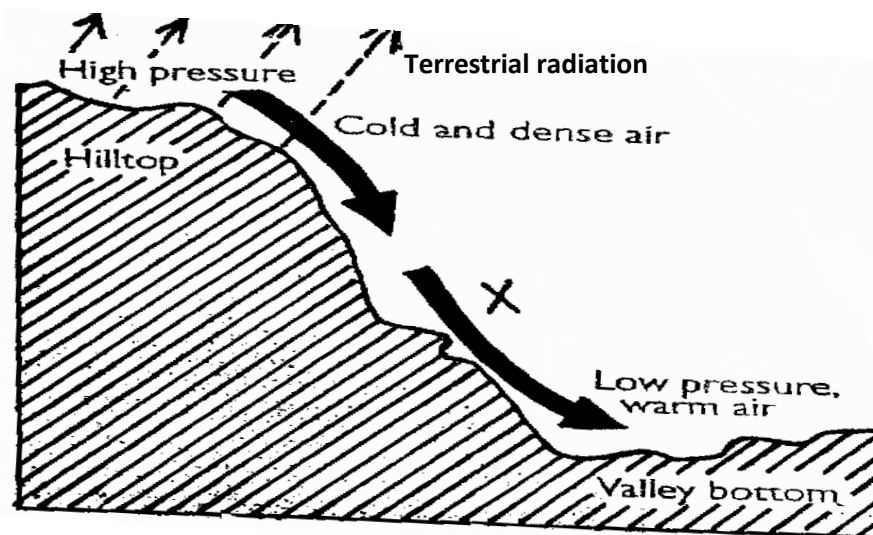
Question	Maximum score	Candidate's score
1-	80	

SECTION A (25MARKS)

- 1 (a) A part from the sun, name **three** other components of the solar system (3mks)

(b) Give **two** reasons why the sun is considered a unique star. (2mks)
- 2 (a) Outline **three** differences between lines of latitude and longitude. (3mks)

(b) State **two** effects of the revolution of the earth (2mks)
- 3 (a) The diagram below represents movement of a local wind. Use it to answer question (a).



(a)(i) Identify the wind marked **X**

(1mk)

(ii) State **two** characteristics of wind marked **X** in the diagram
(2mks)

(b) Give **two** ways in which sea breeze affects adjacent landmasses (2mks)

4. (a) Name **three** types of faults.

(3mks)

(b) Give **two** evidences that support continental drift-theory.(2mks)

5. (a) What is a tsunami?

(2mks)

(b) State **three** consequences of earthquake occurrence in a built up area.(3mks)

SECTION B

Answer Question 6 and any other two from this section.

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

6 (a)(i) Identify **two** man made features found at the Grid square 2826.

(2mks)

(ii) Identify the altitude of the lowest point found in the area covered by the map. (2mks)

(iii) Give **three** types of drainage features found in the area covered by the map. (3mks)

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

(ii) Measure the distance of the all weather loose surface road

C638 from Kitale Municipality Boundary to Cherangani

from the junction at point **M**(345142) to the junction in a grid square 4314 and give your answer in **metres**. (2mk)

(c) i) Draw a sketch section representing the area in the map bounded by Easting 23-27 and Northing 18-22 and indicate the following features.

(2mks)

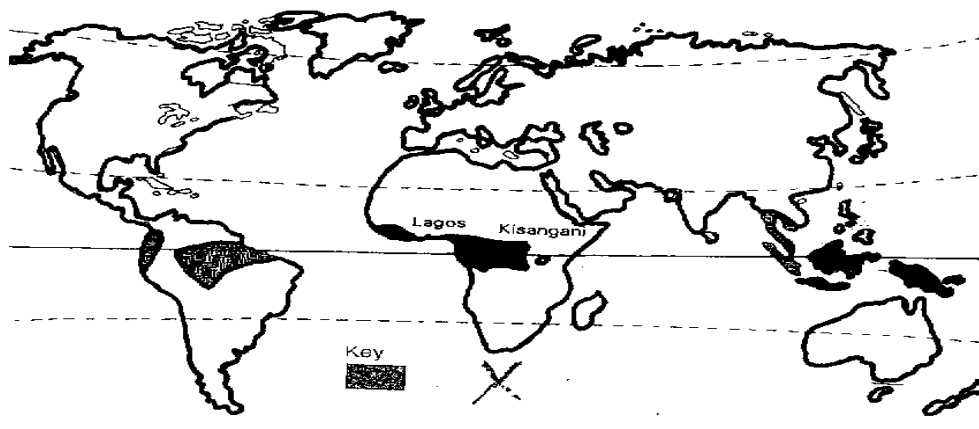
- All weather loose surface road B10/2
- Seasonal swamp
- Plantation
- Mc calls bridge (4mks)

(ii) Reduce the drawn sketch section by $\frac{1}{2}$ and indicates the above features. (2mks)

(iii) Calculate the **RF** scale of the reduced sketch section in (ii) (2mks)

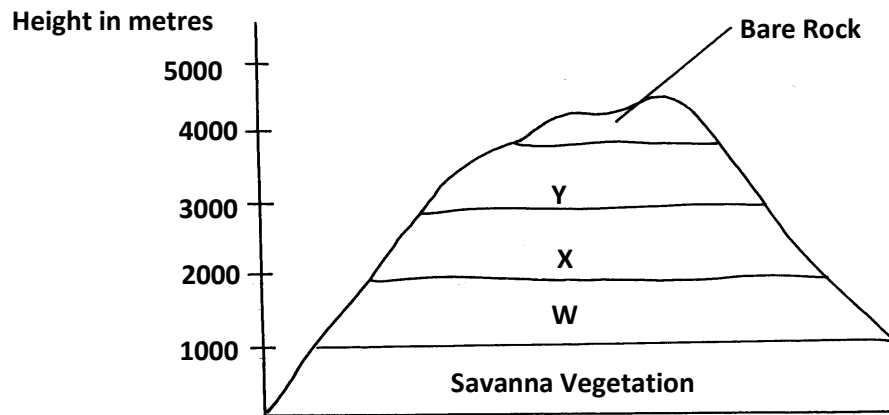
(d) State **four** physical conditions favourable for the growth of the plantation crop shown in the area covered by the map. (4mks)

7. Study the climatic map of the world below and use it to answer questions that follow.



- (a)(i) Identify the climatic region marked **X** (1mk)
- (ii) Describe the characteristics of the climate experienced at the region marked **X** (6mks)
- (b) (i) What is climate change (2mks)
- (ii) State **six** consequences of climate change in the world. (6mks)
- c) Form 2 students of Kalkada secondary school planned to carry a field study to a weather station.
- (i) State **four** reasons why it was important for them to draw a work schedule (4mks)
- (ii) Identify **three** methods the students needed to use to present their findings. (3mks)
- (iii) State **three** problems the students are likely to have experienced during the study. (3mks)

8. The diagram below represents zones of natural vegetation on a mountain in Africa. Use it to answer question (a) (i) and (ii).



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

(ii) Describe the characteristics of savanna vegetation (6mks)

(iii) Name the temperate grasslands found in the following countries

i) South Africa (1mk)

ii) Australia (1mk)

iii) Argentina (1mk)

(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** reasons why it would be necessary to visit the area before the day of the study. (3mks)
- (ii) Give **four** uses of vegetation you are likely to identify during the study (4mks)
- 9(a) Give **two** characteristics of arid lands. (3mks)
- (b) Describe **three** processes of wind erosion. (6mks)
- (c) Using a well labelled diagram describe the formation of a yardang. (6mks)
- (d) (i) State **four** factors influencing wind transportation. (4mks)
- (ii) Apart from dunes, name other **two** features formed as a result of wind deposition. (2mks)
- (e) With an aid of a well labelled diagram, describe the formation of a wad (5mks)
10. (a) (i) Differentiate between valley glacier and pied mont glacier (2mks)
- (ii) State **two** factors that influence occurrence of glacial erosion (2mks)

(b) Describe how the following processes of glacial erosion occur.

(i) Plucking (3mks)

(ii) Abrasion (3mks)

(c) (i) Identify **three** glacial depositional features formed in the lowlands (3mks)

(ii) Using well labelled diagram, describe how a cirque is formed. (7mks)

(d) State **five** significance of glaciation to man. (5mks)

PP1 PROJECTION NO. 37

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
- (f) Candidates should answer the questions in English.

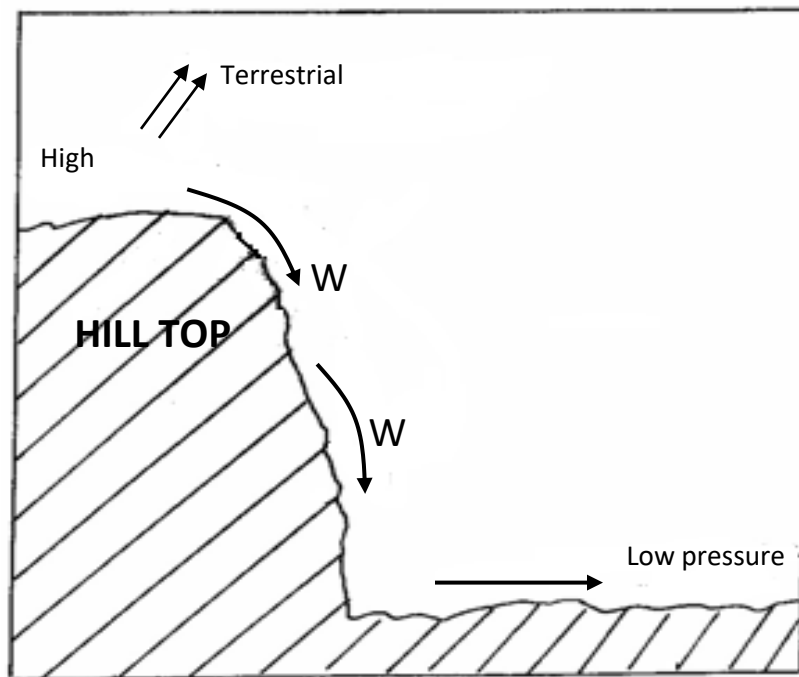
FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A:

Answer **all** questions 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.



- (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)

(ii) 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.

PP1 PROJECTION NO. 38

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
- (f) Candidates should answer the questions in English.

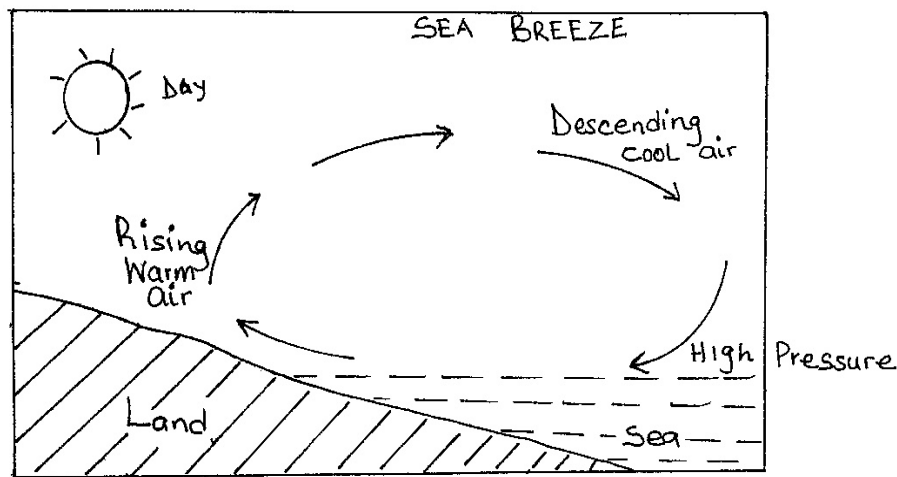
FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A:

Answer **all** questions from *this* section.

1. (a) State **three** proofs that the earth is spherical. (3 marks)
- (b) Name **three** effects of the earth's rotation. (3 marks)
2. (a) What is an air mass? (2 marks)
- (b) Give **three** benefits of humidity in the atmosphere.(3 marks)
3. Use the diagram **below** to answer the questions that follow:-



- (a) What causes sea breeze? (2 marks)
- (b) State **two** effects of sea breeze. (2 marks)

4. (a) What is faulting. (2 marks)

(b) Give **three** ways through which a rift valley may be formed.
(3 marks)

5.(a)State **two** reasons why a river may deposit its load. (2 marks)

(b)Give **three** ways through which a river carries its load. (3 marks)

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) and answer the following questions.

(a)(i) Convert the R.F scale given in the map to a statement scale.(2 mrks)

(ii) Name the **three** districts neighbouring Kitale to the East of the map.
(3 marks)

(b) (i) Measure the distance of the murram road B10/2 to the South West of the area (from Kitale) upto the junction at Knight's Corner.

(Give the distance in kilometers). (2 marks)

(ii) Calculate the area of Kiptaberr forest within the confines of the
District boundary. (2 marks)

(iii) Name **two** manmade features in the grid square 3517.(2 marks)

(c)(i) What is the longitudinal extent of the area covered by the map.
(3 marks)

(ii) Citing evidence state **three** factors that determine human settlement in the area. (3 marks)

(d)(i) The area shown in the map has several estates for agriculture.

List **four** characteristic this type of agricultural practice. (4 marks)

(ii) Describe the drainage of the area shown in the map.(5 marks)

7. (a) (i) What is ground water. (1 mark)
- (ii) Give **three** sources of ground water. (3 marks)
- (b) What are the ideal conditions for the formation of artesian basin?
(4 marks)
- (c) Explain how the following factors influence the existence of ground water.
- (i) Precipitation. (2 marks)
- (ii) Influence of the nature of rocks. (2 marks)
- (iii) Influence of vegetation cover. (2 marks)
- (d) State **two** other factors which influence the existence of ground water. (2 marks)
- (e) You are supposed to carry out a field study of the area with ground water.
- (i) Give reasons why you need a work schedule.(3 marks)
- (ii) Write **three** objectives for your study. (3 marks)
- (iii) State **three** possible problems you are likely to encounter during the study. (3 marks)

8.(a)(i) State **three** ways in which a glacier is formed.(3 marks)

(ii) Explain the **two** major processes of glacial erosion.(4 marks)

(b) (i) State **three** causes of glacial deposition. (3 marks)

(ii) List **three** erosion features of glacier in the highland areas.
(3 marks)

(c) (i) Describe how drumlins are formed. (4 marks)

(ii) Explain **four** benefits of glaciation and glaciated landscape. (8 marks)

9.(a) (i) What is climate? (2 marks)

(ii) Name **two** instruments found in a Stevenson screen.(2 marks)

(b) The diagram **below** shows climatic regions of Kenya.



- (i) Name the climatic regions marked **1, 2, 5** and **7**. (4 marks)
- (ii) Explain **four** climatic characteristics of the region marked **3**.
(4 marks)
- (c)(i) Describe the characteristics of desert type of climate. (4 marks)
- (ii) Explain **three** consequences of climate change. (6 marks)
- (iii) Name **three** countries that experience tropical monsoon type
of climate outside Africa. (3 marks)
10. (a) (i) What is a rock? (2 marks)
- (ii) Explain the process of formation of mechanically
formed sedimentary rocks. (5 marks)
- (b) Explain **three** ways in which rocks are significant to economy of
Kenya. (6 marks)
- (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. (3 marks)
- (ii) Give **three** methods of data collection they may have
used during their study. (3 marks)
- (iii) State **three** problems they are likely to have
encountered during the field study. (3 marks)

PP1 PROJECTION NO. 39

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
- (f) Candidates should answer the questions in English.

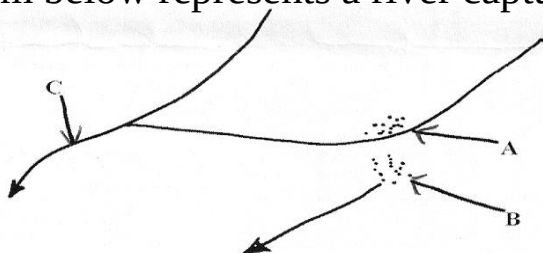
FOR EXAMINERS USE ONLY

Question	Maximum score	Candidate's score
1-	80	

SECTION A

Answer ALL Questions.

1. (a) Define the term Equinox. (2mks)
(b) What is the longitude whose local time is 5.00p.m. when the local time at longitude 0° is 8.00p.m. (3mks)
2. (a) Name the instrument used to measure sunshine. (1mk)
(b) State **four** factors that determine the amount of solar radiation reaching the Earth's surface. (4mks)
3. (a) State **three** ways in which faulting can influence drainage system. (3mks)
(b) Name any **two** block mountains in Kenya. (2mks)
4. (a) Distinguish between plutonic rocks and volcanic rocks. (2mks)
(b) State **three** types of rock metamorphism. (3mks)
5. (a) State **two** ways through which rivers transport its load. (2mks)
(b) The diagram below represents a river capture.



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

SECTION B

Answer question 6 and any other two questions in this section

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

(a) (i) Name the relief feature found in grid square 2823. (1mk)

(ii) Determine the distance of road B 10/2 from Knight's corner junction with Road C637 to Kitale. (2mks)

(iii) Find the area of Kiptaberr Forest. (2mks)

(iv) Give the approximate position of Morkwijit village North of Dalgany Farm by latitude and longitude. (2mks)

(b) (i) Using a scale of 1cm to represent 50m draw a cross section from 310210 to 380210 and on the cross section mark and label: (5mks)

i. The swamp

ii. Road and

iii. Settlement (3mks)

(ii) Giving evidence, state **three** factors which have influenced dense settlement in the area East of Easting 40. (3mks)

(c) Citing evidence from the map; identify **three** factors which have influenced the growth of forests in Kitale area. (3mks)

(d) State **four** functions of Kitale town. (4mks)

7. (a) (i) Define Karst scenery. (2mks)

(ii) State **two** characteristics of the Karst scenery. (2mks)

(b) With the aid of a diagram, describe the formation of a Polje.

(6mks)

(c) Draw a well labeled diagram showing the following underground features of a Karst scenery. (6mks)

- Stalactite
- Stalagmite
- Limestone pillar / rock pillar
- Cavern

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

(i) Give **three** reasons why you would conduct a reconnaissance.

(3mks)

(ii) Name **three** surface features that you are likely to identify during the field study. (3mks)

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

8. (a) (i) Define the term Vulcanicity. (2mks)

(ii) Name **two** features resulting from fissure eruptions.

(2mks)

(b) With the aid of a diagram, describe the formation of the following intrusive

features:

i. Sill (3mks)

ii. Dyke (3mks)

iii. Batholith (3mks)

(c) Explain **three** positive effects of vulcanicity to human activities.

(6mks)

(d) You have been asked to carry out a field study in Mount Kenya on Vulcanicity.

(i) Name **three** follow-up activities you will undertake.

(3mks)

(ii) State **three** methods you could use to collect your data.

(3mks)

(e) Explain **three** problems limiting the growth of softwood forest in Canada. (6mks)

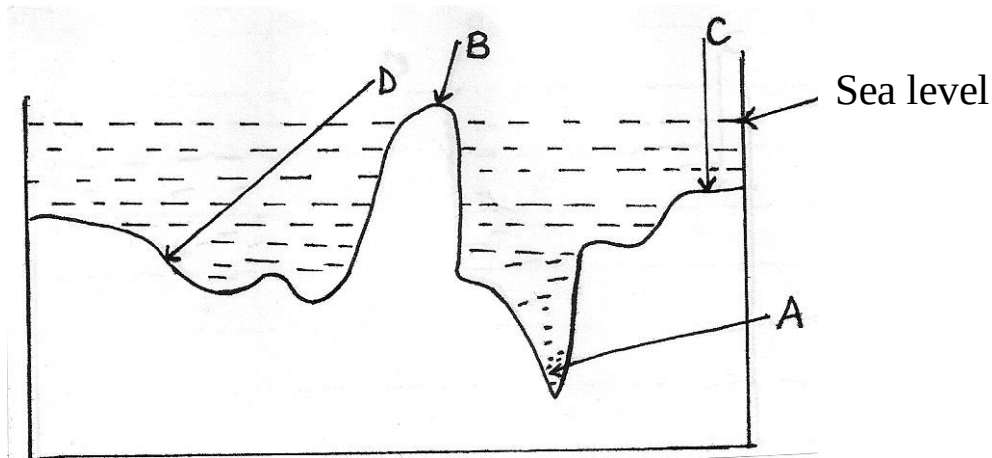
9. (a) Name **three** types of desert surfaces. (3mks)
- (b) Explain the following process of wind erosion.
- (i) Abrasion. (2mks)
 - (ii) Deflation. (2mks)
 - (iii) Attrition. (2mks)
- (c) With the aid of a diagram, describe how Rock pedestal is formed.
(6mks)
- (d) Draw a clear diagram of overhead view of a desert basin. On it mark and name the following features resulting from water action:
(5mks)
- (i) Alluvial fan
 - (ii) Pediment
 - (iii) Playa
 - (iv) Bajada
- (e) State **five** positive significance of desert features. (5mks)

10. (a) Define the following terms:

(i) Coastline (2mks)

(ii) Shore (2mks)

(b) (i) Label the diagram shown below. (4mks)



A, B, C and D

(ii) Explain **three** factors which affect horizontal movement of ocean waters. (6mks)

(c) Explain **three** factors that affect wave deposition. (6mks)

(d) Name **two** causes of ocean tides. (2mks)

(e) Your class visited the Kenyan Coast for a geographical field study on oceans.

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

PP1 PROJECTION NO. 40

GEOGRAPHY

PAPER 1

TIME 2³/₄ HOURS

INSTRUCTIONS TO CANDIDATES:

- (a) This paper has **two** Sections **A** and **B**.
- (b) Answer all the questions in Section **A**.
- (c) Answer question **6** and any other **two** questions from Section **B**.
- (d) All answers must be written in the answer booklet provided.
- (e) Candidates should check the question paper to ascertain that all the papers are printed as indicated and no questions are missing.
- (f) Candidates should answer the questions in English.

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Question	Maximum score	Candidate's score
1-	80	

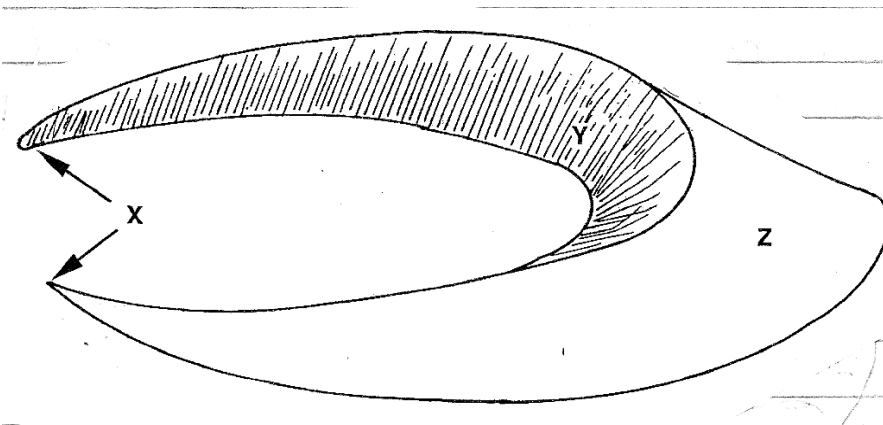
SECTION A

Answer ALL Questions.

1. (a) State **three** effects of the revolution of the earth. (3mks)
(b) If the time in Nairobi, Kenya (longitude 34°E) is 1600 hours, what is the time in
Accra, Ghana (Longitude 0°) (3mks)

2. (a) Identify **two** human causes of earthquakes. (2mks)
(b) State **three** effects of earthquakes on built up areas. (3mks)

3. Study the diagram below and answer the questions that follow.



- (a) Name the feature shown on the diagram. (1mk)
- (b) Name parts labeled X, Y and Z. (3mks)

4. (a) State **two** underground features in limestone areas. (2mks)
- (b) Mention **three** conditions necessary for development of Karst features. (3mks)
5. (a) What is natural vegetation? (2mks)
- (b) Name the temperate grasslands found in the following countries:
(3mk)
- (i) Canada
 - (ii) Russia
 - (iii) Australia

SECTION B

Answer question 6 and any other two questions in this section

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

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

(2mks)

(ii) Identify **two** man made features found on the North of northing 18 and West of Easting 30. (2mks)

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

(iv) Give **three** methods of showing relief that have been used on the area Covered by the map. (3mks)

(v) State **two** types of rivers found in the area covered by the map. (2mks)

(b) Draw a rectangular frame measuring 7cm by 5cm to represent the area enclosed by the Eastings 26 and 33 and Northings 15 and 20.

(1mk)

On the Rectangle mark and name the following features:-

iv. River Koitobos (1mk)

v. The loose surface road C641 (1mk)

vi. The seasonal swamp. (1mk)

(c) Citing evidence from the map; give **four** economic activities carried out in the

area covered by the map.

(4mks)

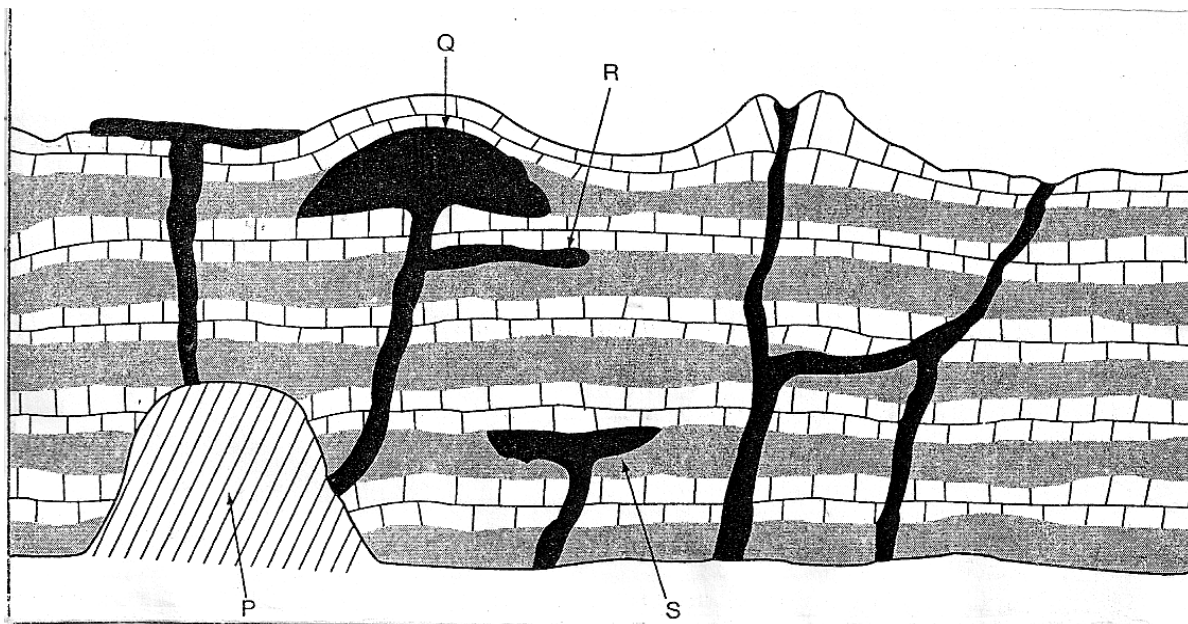
(d) Some students are required to carry out a field study at Kapolet forest.

(i) Give **three** reasons why it would be necessary for them to sample part of the forest. (3mks)

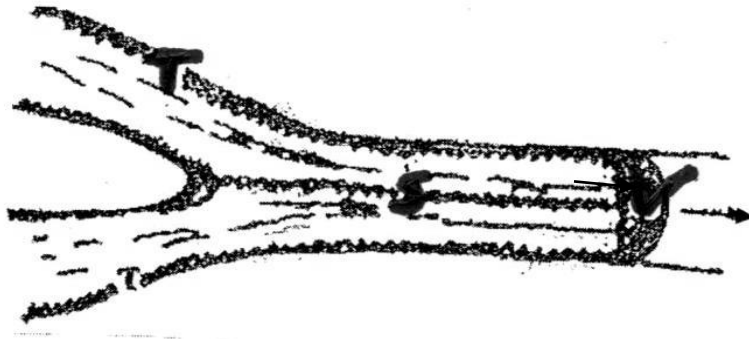
(ii) Explain **two** ways in which their findings would be useful to the community.(4mks)

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

(b)The diagram below shows some intrusive volcanic features.



- (i) Name the features marked P, Q, R and S. (4mks)
- (ii) Describe how the following features are formed and for each given an example from Kenya.
- A crater (3mks)
 - A geyser (5mks)
 - A lava plateau (4mks)
- (c) State **four** ways in which volcanic features influence human activities. (4mks)
- (d) State **three** characteristics of basic lava. (3mks)
8. (a) (i) What is an ice sheet? (2mks)
- (ii) Give **two** reasons why there are no ice sheets in Kenya. (2mks)
- (iii) Explain **three** factors that influence the movement of ice from the place where it has accumulated. (6mks)
- (b) (i) Describe how an arête is formed. (4mks)
- (ii) Explain **four** possible effects of glaciations in Lowland areas. (8mks)
- (c) The diagram below shows types of moraines in a valley glacier. (6mks)



(iii) Name the types of moraines marked S, T and V.

(3mks)

(iv) State **three** methods you could use to collect your data.

(3mks)

9. (a) State **three** ways through which sedimentary rocks are formed.

(3mks)

(b) Explain **three** processes through which rocks change to metamorphic rocks.

(6mks)

(c) Give **two** examples of each of the following igneous rocks:

(i) Plutonic rock (2mks)

(ii) Hypabyssal rock. (2mks)

(iii) Volcanic rock. (2mks)

(d) Suppose you were to carry out a field study of rocks within the vicinity of your

school:

- (i) Name **three** secondary sources of information you would use to prepare for the field study. (3mks)
 - (ii) State **three** activities you would carry out during the field study. (3mks)
 - (iii) State **three** problems you are likely to face during the field study. (3mks)
 - (iv) State the **main** reason why students prepare a work schedule. (1mk)
10. (a) (i) Define artesian well. (2mks)
- (ii) Give **three** sources of underground water. (3mks)
 - (iii) Distinguish between permeable and porous rocks. (2mks)
- (b) (i) Mention **two** features associated with underground water. (2mks)
- (ii) Explain **four** factors that affect the occurrence of underground water. (8mks)
- (c) Explain **four** importance of underground water. (6mks)

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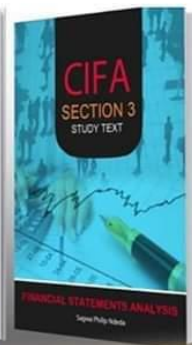
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