KCSE 2023 REPLICA

GEOGRAPHY

(KCSE PREDICTIONS 1-10)

Series of Exclusive Set of Expected Questions Predicted in the Final KCSE 2023 Examinations Scheduled for November 2023.

The following are Prediction Questions in KCSE 2023 Geography EXAM.

CONFIDENTIAL!

For Marking Schemes

Mr Isaboke 0746 222 000 / 0742 999 000

SUCCESS TO ALL CANDIDATES

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 1

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

Answer all the questions in this section.

1.(a) Differentiate between latitudes and longitudes. **(2 mks)**

(b)State **three** reasons why the interior of the earth is very hot**.** **(3 mks)**

2. Describe the origin of the continents according to the theory of continental drift **.** **(5mks)**

3.(a) Name the **three** main stages of the long profile of a river **(3mks)**

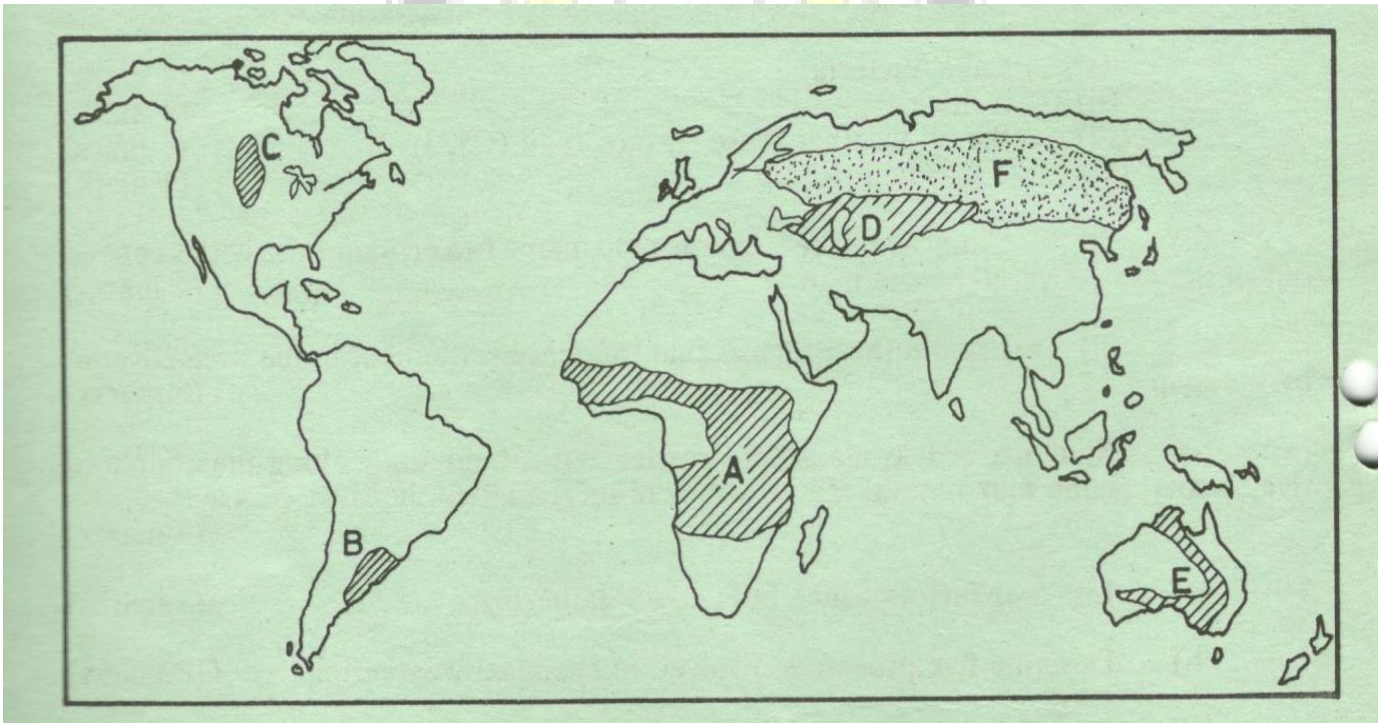
(b) State **three** conditions under which gorges may form **(3mks)**

4.(a) Give **two** sources of underground water**.** **(2mks)**

(b) State **three** conditions that favour the formation of artesian wells. **(3mks)**

5.(a) What is the meaning of the term vegetation? **(1 mk)**

(b) Use the sketch map below to answer the questions that follow



i) Identify the type of vegetation in the shaded region marked **F** **(1 mk)**

ii) State **two** characteristics of theabove identified vegetation type **(2mks)**

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SECTION B

Answer question six and any other two questions from this section

6. Study the Map of **Kisumu East 1: 50 000 (sheet 116/2**) provided and answer the following questions

a i. Apart from topographical maps name two other types of maps. **(2mks)**

ii. What is the trigonometrically station at grid reference 081980 from the rock outcrop at grid reference 091992. **(2mks)**

iii. Measure the length of the all-weather road bound surface B from the grid reference 974911to the edge of the map, grid reference 947967. Give your answer in Kilometers. **(2mks)**

bi. Describe the relief of the area covered by the map **(5mks)**

c. Citing evidence from the map give three economic activities apart from crop growing carriedout in the area covered by the map**.** **(2mks)**

di Students from the school at Masogo (grid square 0681) carried out a field study of the courseof river Ombeyi

i. State four findings they are likely to come up with. **(2mks)**

ii. State three advantages of studying rivers through fieldwork. **(2mks)**

iii. What problems were the students likely to face during their field study? **(2mks)**

7.(a) (i) What is ocean salinity? **(2mks)**

(ii) Give **three** sources of mineral salts in ocean water. **(3mks)**

(b) Explain **three** factors that cause horizontal movement of ocean water. **(6mks)**

(c) Describe how the following are formed

(i) Wave-cut platform. **(4mks)**

(ii) Cuspate foreland**.** **(5mks)**

(d) You intend to carry out a field study on wave deposition on the coast of Kenya.

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

(ii) Give **three** reasons why you would need to state objectives for your study. **(3mks)**

8. a) (i) List **four** characteristics of desert soils**.** **(4 mks)**

(ii) Give **two** factors that contribute to soil leaching**.** **(2 mks)**

b) Explain how each of the following factors influence the formation of soil

(i) Parent **rock** **(2 mks)**

(ii) Living organisms **(2 mks)**

(iii) Topography **(2 mks)**

c) Draw a well labelled profile of a mature soil. **(5 mks)**

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

e) Explain **three** ways in which human activities contribute to soil erosion**.** **(6 mks)**

9. (a)(i) What is a glacier**?** **(2mks)**

(ii) How is a glacier formed**?** **(4mks)**

b)(i) Explain **three** processes through which ice **moves** **(6mks)**

(ii) Describe the formation of a cirque **(3mks)**

c) Describe how the movement of valley glaciers is influenced by the following factors

(i) Temperature **(2marks)**

(ii) Width of glacier channel **(2marks)**

d. You intend to carry out a field study on Mt Kenya

(i) Name **three** types of moraines you are likely to identify **(3mks)**

(ii) State **three** problems you are likely to encounter **(3mks)**

10.a) (i) Define the following features

- **Erg** **(1 mk)**
- Hamada **(1 mk)**
- Reg **(1 mk)**

(ii) State **two** factors that contribute to the development of hot desert**.** **(2 mks)**

b) With the aid of well labeled diagrams explain how a rock pedestal is formed. **(8mks)**

c) Explain **three** factors that influence wind transportation in a desert. **(6 mks)**

d) You are required to carry out a field study of an arid area in Kenya.

(i) Formulate **two** objectives for the study findings**.** **(2mks)**

(ii) State **two** measures the government would put in place to curb desertification in Kenya**.(2mks)**

(iii) Name any **two** features resulting from action of water in desert areas**.** **(2mks)**

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KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 1

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

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INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
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d) *All answers must be written in the answer booklet provided*

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A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

Answer all the questions in this section.

1 a) State **three** factors that contribute to growth of slums in urban centers. **(3mk)**

b) List **two** types of settlement patterns in Kenya. **(2mk)**

2a) State **three** physical conditions that favour growing of maize in Kenya**.** **(3mk)**

b) Give **two** problems facing maize farming in Kenya**.** **(2mk)**

3a) What is air pollution**?** **(2mk)**

b) State **three** ways that Kenya has adopted to manage air pollution**.** **(3mk)**

4a) Differentiate between a national park and a game reserve. **(2mk)**

b) State **three** effects of human encroachment into wildlife habitats. **(3mk)**

5 a) Name **two** places where diamond mining is done in South Africa. **(2mk)**

b) State **three** problems facing gold mining in South Africa**.** **(3mk)**

SECTION B

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

6 a) The photograph below shows a crop cultivated under horticultural farming.



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a i) identify the type of photograph shown above. **(1mk)**

ii) Using evidence from the photograph, identify **two** indicators that show the area receive high rainfall. **(2mk)**

iii) Draw a rectangle measuring 15 cm by 10 cm and on it sketch and show the main features.**4mk**

b) State **four** reasons why growing of vegetables in green houses in Kenya would be preferred. **(4mk)**

c) Explain **four** difficulties that the Kenyan farmer face in marketing horticultural produce. **(8mks)**

d) Explain **three** similarities between horticultural farming in Kenya and Netherlands. **(6mk)**

7a) Differentiate between pelagic fishing and demersal fishing**.** **(2mk)**

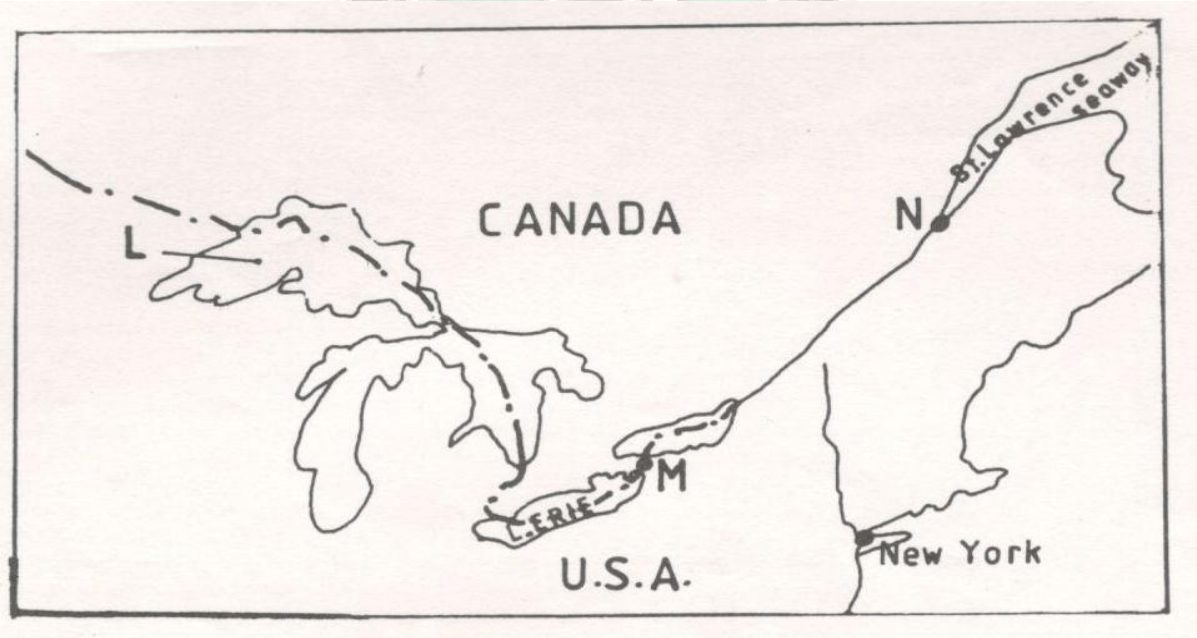
b) State **four** reasons why marine fisheries are not well developed in Kenya. **(4mk)**

c i) Explain **three** reasons why Lake Victoria is a major fishing ground in Kenya**.** **(6mk)**

ii) Give **five** ways in which fresh water fisheries in Kenya can be conserved. **(5mk)**

d) Explain **four** differences between fishing in Kenya and Japan**.** **(8mk)**

8 The sketch map below shows the Great Lakes and the St. Lawrence sea way. Use it to answer question (a)



a) i) Name the lake marked **L.** **(1mk)**

ii) Name the waterfall marked **M.** **(1mk)**

iii) Name the sea port marked **N**. **(1mk)**

b) i) List **three** objectives that led to the construction of the St. Lawrence sea way. **(3mk)**

ii) Explain **four** ways in which the St. Lawrence Sea way has benefited the economies of Canada and the USA. **(8mk)**

c) State **three** causes of the decline in use of letters as a mean of communication in Kenya. **(3mk)**

d)Explain **four** efforts made by the Government of Kenya to solve the problems facing communication in the country**.** **(8mk)**

9 a i) Name **two** places in Kenya where wind energy is being harnessed. **(2mk)**

ii) Give **four** reasons why Kenya has not been able to fully exploit her geothermal power potential**.** **(4mk)**

b) Explain **four** benefits that would result from rural electrification in Kenya**.** **(8mk)**

c) Apart from petroleum oil, name **three** other sources of non -renewable energy**.** **(3mk)**

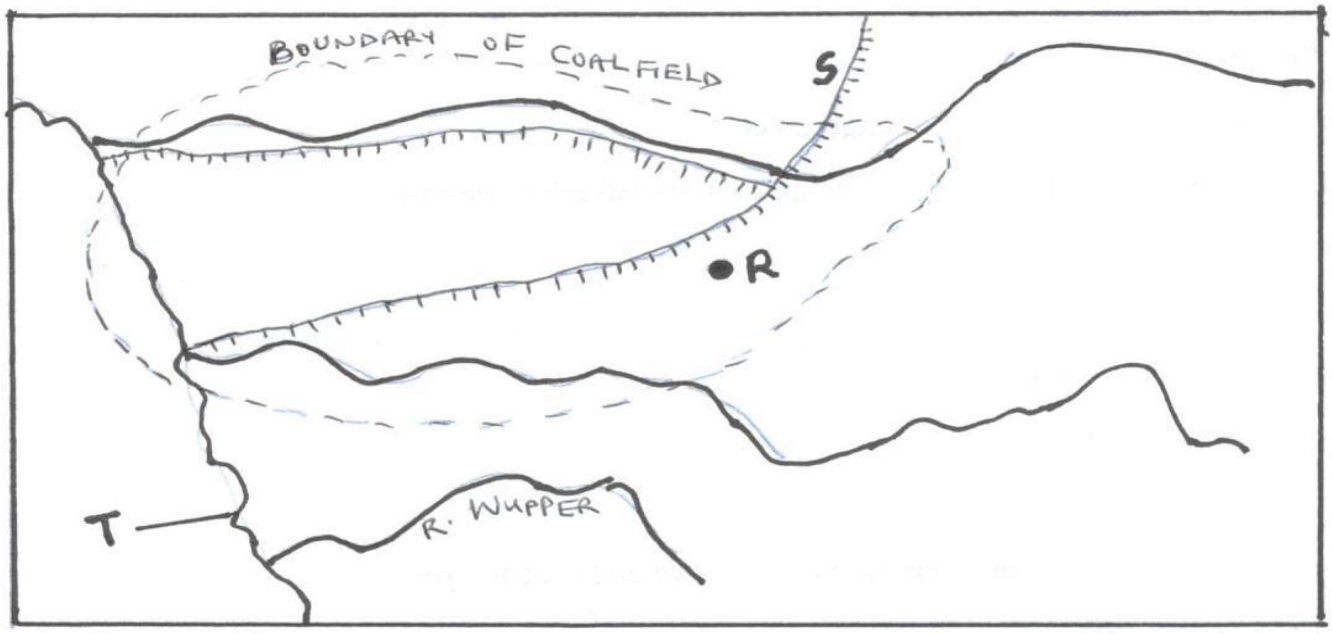
d) i) What is energy crisis. **(2mk)**

ii) Explain **three** effects that the increase in petroleum oil prices has had on the economy of Kenya**.** **(6mk)**

10. ai) Name **two** towns in Kenya with motor vehicle assembly industries**.** **(2mks)**

ii)State **four** ways in which Kenya has benefited from the motor vehicle assembly industries.**(4mk**

b) The sketch map below shows the Ruhr Industrial region of Germany.



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i) Name the town marked **R.** **(1mk)**

ii) Name the canal marked **S.** **(1mk)**

iii) Name the river marked **T.** **(1mk)**

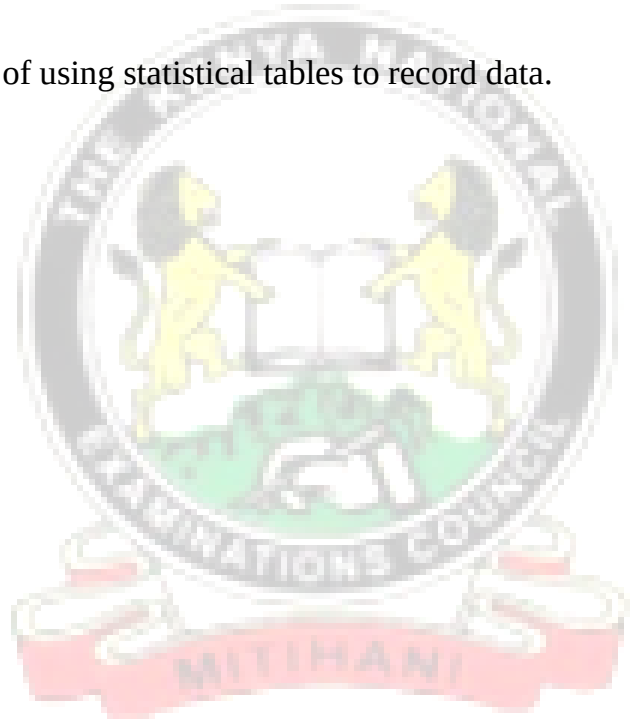
c) Explain **four** factors that have led to the growth of the iron and steel industries in the Ruhr region of Germany**.** **(8mk)**

d) Your class has decided to undertake a field study in a factory near your school.

i) Give **three** reasons why it is important to seek permission from the schoo**l.** **(3mk)**

ii) State **two** reasons why administering questionnaires may not be an appropriate method to collect data. **(2mk)**

iii) State **three** advantages of using statistical tables to record data. **(3mk)**



KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 2

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
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d) *All answers must be written in the answer booklet provided*

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A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. (a) What is the relationship between geography and mathematics. **(2mks)**

(b) State **two** reasons why it is important to study geography. **(2mks)**

2. (a) What is a line of longitude? **(2 marks)**

(b) What is the local time of Alexandria 30^{O}E when the local time at Malindi 40^{O}E is 12.00 noon? **(2 marks)**

3. (a) State **three** causes of earth movement **(3 marks)**

(b) Name **two** main earthquake zones in the world **(2 marks)**

4. (a) Name **three** features found on emerged highland coast **(3 marks)**

(b) State **three** conditions necessary for the formation of a spit **(3 marks)**

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

(b) Apart from lakes, rivers and sea, name any other **two** sources of underground water **(3 mrks)**

SECTION B

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

6. Study the map of **KISUMU EAST 1: 50000** [SHEET 116/2] provided to answer the following

[a] I] Apart from the type of map you are using state any other **two** types of maps**. [2marks]**

II] Identify **two** vegetation in the area covered by the map **[2marks)**

II] Name **two** methods used to represent relief in the area covered by the map**. [2marks]**

[B] I] In what hemisphere does Kisumu East lie? **[1mark]**

II] Measure the distance of the section of railway line west of Easting 00 to Kisumu station, give your answer in kilometers. **[2marks]**

III] Identify **two** forms of land transport in Kisumu east**. [2marks]**

[C] I] Describe **relief** of the area covered by the map**. [3marks]**

II] Describe the distribution of settlement in the area covered by the map **[4marks]**

D] Using a vertical scale of **1cm represent 20m** draw a cross section along northing **98 from Easting 96 to** Easting 02. **[4marks]**

On it mark and label the following. **[3marks]**

River Nyangori
Dry weather road
Steep slope.

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

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

b) i) With the aid of a well labeled diagram, describe how a rift valley is formed by compressional forces **(6mks**

ii) Explain three ways in which faulting may influence drainage system **(6mks**

c)Explain three ways in which faulting is of significance to human activities **(6mks)**

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

ii) State two negative effect of desertification **(2mks)**

b)Draw a sketch map Africa and indicate the ocean currents.

i. Benguela, Guinea, Agulhas/ Mozambique **(4mks)**

ii. State two effects of Benguela Current on the adjacent coastlands **(2mks)**

c) Describe the characteristics of the Equatorial type of climate **(8mks)**

d) Explain how the following factors influence climate:

i. Altitude **(4mks)**

ii. Distance from the sea **(3mks)**

9.a) (i) Differentiate between a watershed and a drainage basin **(2 marks)**

(ii) State three processes of river erosion **(3 marks)**

b)(i) Give three ways in which river transport its load **(3 marks)**

(ii) State four factors which influence river deposition **(4 marks)**

c) Give three characteristics of a river in its middle stage **(3 marks)**

d)(i) Name two features produced by river rejuvenation. **(2 marks)**

(ii) Describe how river capture occur. **(4 marks)**

(iii) Explain two positive effects of rivers to the human environment **(4 marks)**

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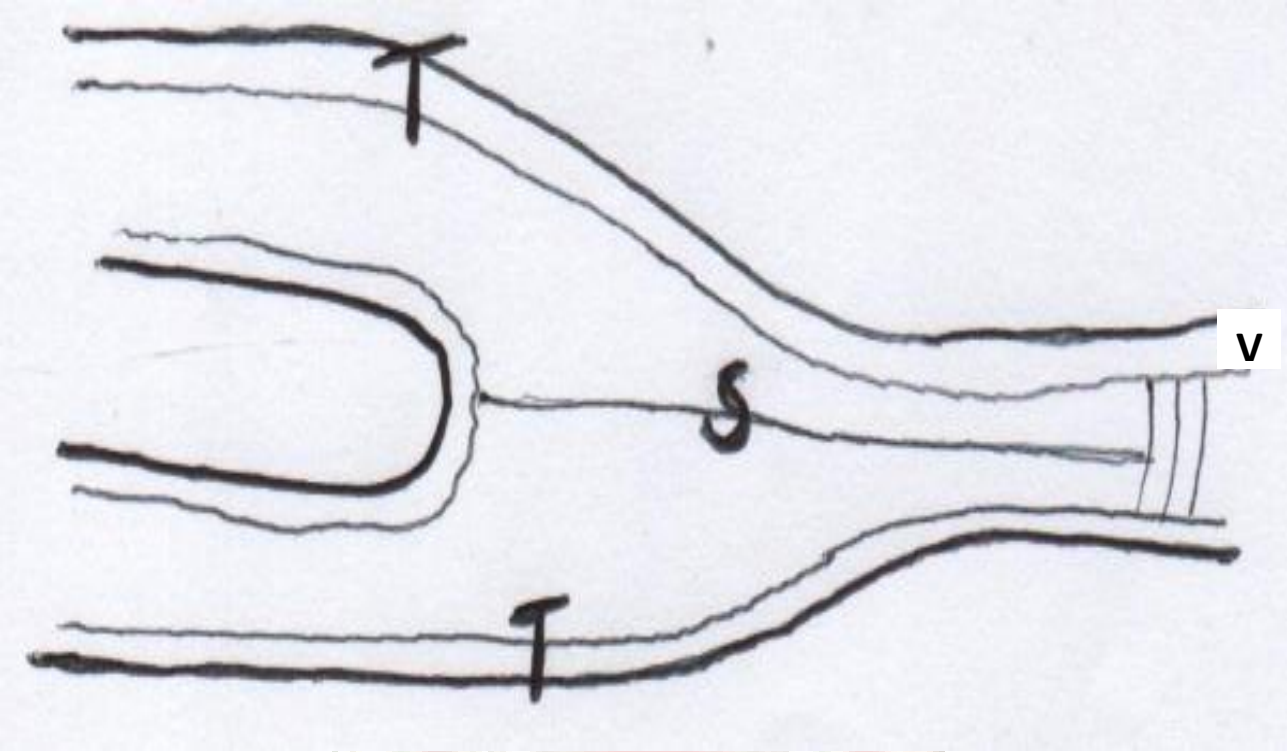
10.a)(i) What is an ice sheet? **(2 marks)**

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

(iii) Explain three factors that influence the movement of ice from the place of accumulation **(6 marks)**

b) Describe how an arête is formed **(4 marks)**

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



(i) Name the type of moraines marked S, T and V **(3 marks)**

(ii) Explain four positive effects of glaciations in lowland **areas** **(8 marks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 2

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

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B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. **a)** **Give two** examples of game sanctuaries in Kenya. **(2mks)**

   b) **State three** problems experienced by Kenya in conservation of wildlife. **(3mks)**

2. **a)** **Name two** major forest blocks found along the Kenyan Coast. **(2mks)**

   b) **State three** factors contributing to deplation of forests in Kenya. **(3mks)**

3. **a)** **Outline two** characteristics of plantation farming in Kenya. **(2mks)**

   b) **State three** physical conditions that favours tea growing in Kenya. **(3mks)**

4. **a)** **Name two** minerals that occur as weathered products. **(2mks)**

   b) **State three** uses of soda ash. **(3mks)**

5. **a)** State **two** factors which have contributed to decline in infants mortality in Kenya. **(2mks)**

b) Identify **three** problems resulting from decline in population in industrialized countries. **(3mks)**

SECTION B

Answer Question 6 and any other two questions.

6. The table below shows total livestock in Kenya in 2007.

Type of Livestock	Number in Millions
Non-Dairy cattle	9.0
Dairy cattle	2.5
Sheep	8.5
Goats	9.5
Pigs	0.5
Total	30.0

(a) Using a radius of 5cm, **draw** a pie chart to represent the above information **(7mks)**

(b) Name **three** pastoralist communities in Kenya **(3mks)**

(i) State **four** characteristics of nomadic pastoralism **(4mks)**

(ii) Explain **four** ways in which the kenya government assists nomadic pastoralists to improve the quality of their livestock. **(8mks)**

(c) State **three** problems facing ranching in the tropical areas. **(3mks)**

7. (a) (i) Explain **three** conditions that favour irrigation farming in Kenya **(6mks)**

(ii) State **five** problems experienced in irrigation farming in Kenya **(5mks)**

b) Describ**e** the stages in the reclamation of land from the sea in Netherlands **(6mks)**

(c) (i) Apart from irrigation name **two** other methods of land reclamation**.** **(2mks)**

(ii) Explain **three** factors that influenced the location of Perkerra Irrigation Scheme **(6mks)**

8. (a) (i) Apart from deep shaft mining, name **three** other mining methods **(3mks)**

(ii) Describe how deep shaft mining is carried out **(6mks)**

(b) Explain **four** ways in which the exploitation of minerals contributes to the economy of Kenya. **(8mks)**

(c)(i) What is dereliction? **(2mks)**

(ii) State **three** ways that can be used to combat dereliction **(3mks)**

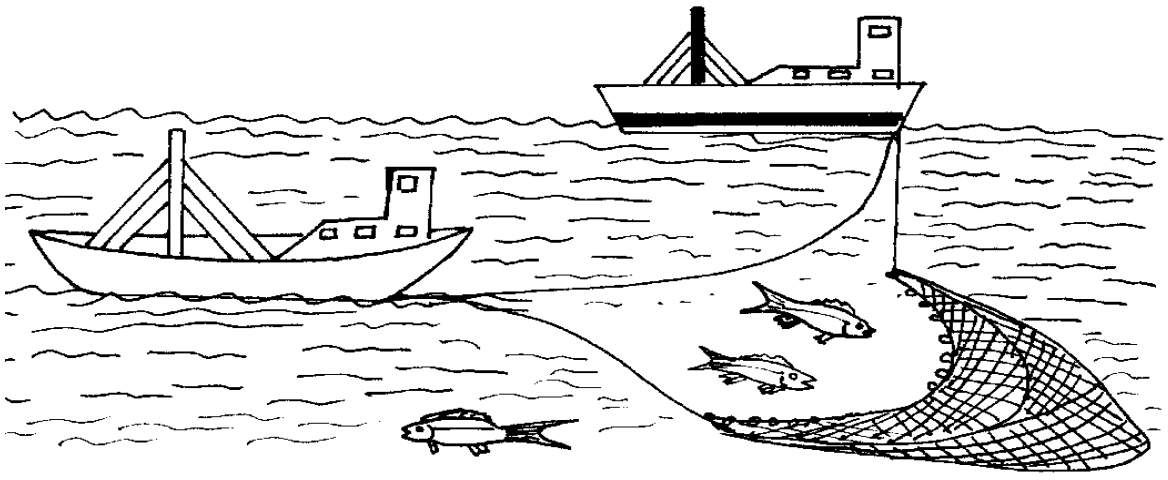
(iii) A part from dereliction state **three** other negative effect of mining**.** **(3mks)**

9. a)i) Identify **three** characteristics of pelagic fish. **(3mks)**

ii) State **three** reasons why marine fishing is not developed in Kenya. **(3mks)**

b) Why should the Government of Kenya encourage fish farming. **(4mks)**

c) (i) Identify the fishing method shown below. **(1mk)**



(ii) Describe how the above method is used in Lake Victoria **(4mks)**

iii) State **two** problems facing fishing in Japan. **(2mks)**

d) Explain **four** factors that favour fishing in the pacific fishing grounds. **(8mks)**

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10.a)i) State **two** advantages of railway transport over road transport **(2mks)**

ii) Describe **two** conditions of Kenyan roads which contribute to road carnage **(4mks)**

b) Apart from different railway gauges, give **three** reasons why railway links among African countries are underdeveloped. **(3mks)**

c) i) State **two** physical factors which favour the location of settlements **(2mks)**

ii) Give **two** differences in the functions of New York and Nairobi cities **(4mks)**

d) i) Compare the ports of Mombasa and Rotterdam under the following Headings:

i) Transport to the interior **(2mks)**

ii) The size of the hinterlands **(2mks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 3

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

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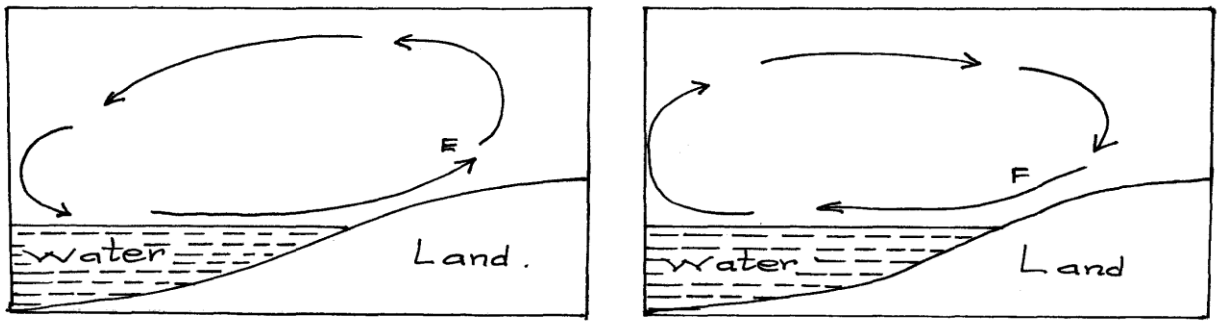
SECTION A

Answer all the questions in this section.

1. a) Define the term Geography **(2mks)**

b) What is the relationship between Geography and Biology **(2mks)**

2. a) Use the diagram below to answer the following questions



i) Name the air currents marked E. **(1mk)**

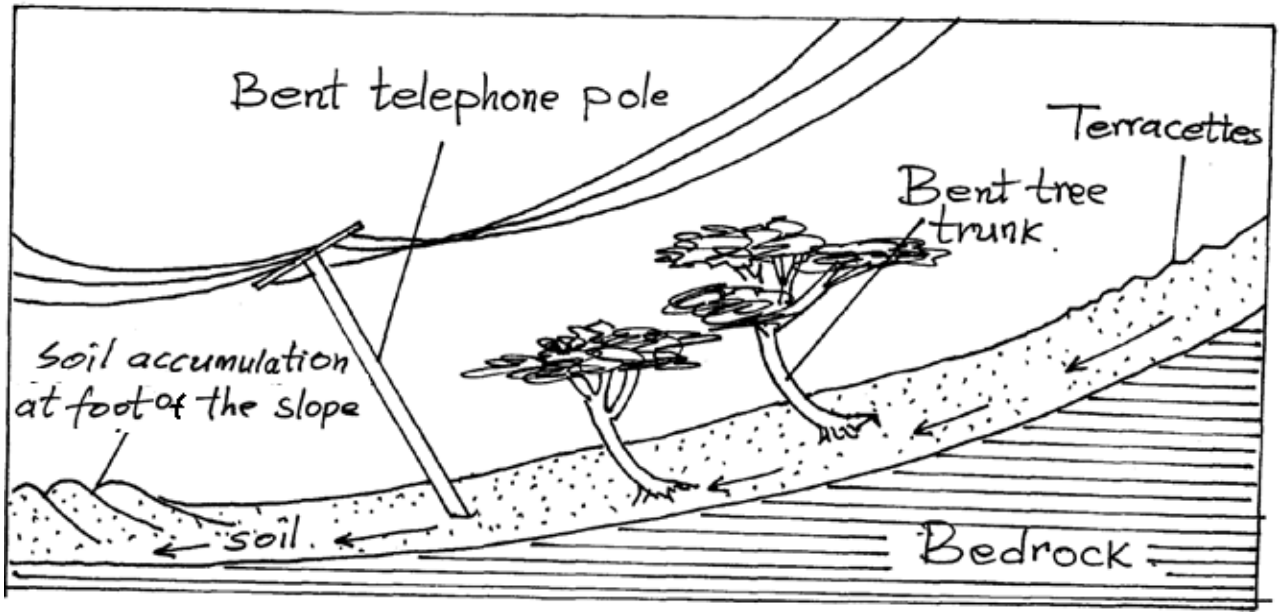
ii) Why does the air current marked F flow at night. **(3mks)**

b) Give reason why air cools as it rises. **(2mks)**

3. (a)Define folding. **(2mks)**

b) List four types of folds. **(4mks)**

4. The diagram below illustrates a mass wasting process. Use it to answer question (a) and (b)



a.) Identify the process. **(1mk)**

b.) Explain how the process occurs . **(3mks)**

5. a.) What is a river profile? **(2mks)**

b.) Name the three stages of a river profile. **(3mks)**

SECTION B

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

6. **Study** the map of **Kisumu East 1:50,000 (sheet 116/2)** provided and answer the following questions.

a) i) Give the ***four*** figure grid reference of Obwolo school. **(1mk)**

ii) What is the approximate height of point 000960? **(1mk)**

iii) Name ***two*** physical features found at grid square 0384. **(2mks)**

iv) Name ***two*** types of natural vegetation in the area covered by the **map** **(2mks**

b) Calculate the area of the Kisumu municipality. Give your answer in square kilometers (km^2) **(2mks)**

c**) Measure** the length of the all-weather road(bound surface) from the junction at grid reference 974911 to the edge of the map, grid reference 950968 **(2mks)**

d) Citing evidence, give three social functions of Kisumu town. **(6mks)**

e) i) Using a scale of 1cm to represent 200 metres, draw a cross-section from grid reference 970980 to 030989. **(4mks)**

ii) On it mark and name the following

- Steep slope **(1mk)**
- Motor able road **(1mk)**
- Nyangori river **(1mk)**

iii) Calculate the vertical exaggeration. **(2mks)**

7. a)(i) What is faulting? **(2mks)**

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

b) With the aid of well-labelled diagrams, describe how a Rift Valley is formed by Tensional force **(8mks)**

c) Apart from the Rift Valley, name other **three** relief features that may form as a result of faulting. (**3mks)**

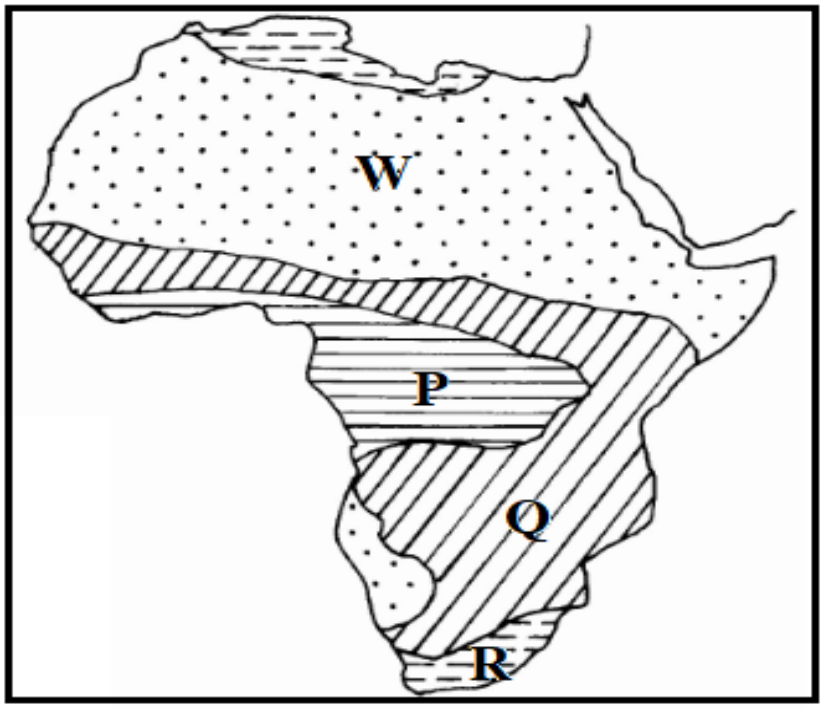
d) Explain **four** ways in which features resulting from faulting are Economic significance. **(8mks)**

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8. (a) Differentiate between weather and climate. **(2mks)**

(b) Explain **two** ways in which human activities influence rainfall of a given place**.** **(4mks)**

(c) The map below shows some climatic regions of the world. Use it to answer the questions that follow.



(i) Name the climatic types marked **P**, **Q** and **R**. **(3mks)**

(ii) Describe the characteristics of the climatic type labeled **W**. **(5mks)**

(d) (i) Name **three** greenhouse gases likely to be found in the atmosphere. **(3mks)**

(ii) Give **three** ways of combating global warming. **(3mks)**

(e) Members of your class plan to conduct a field study on weather in a local weather station

(i) State **three** factors they may identify for the citing of the weather station. **(3mks)**

(ii) State **two** advantages of studying weather through a field study. **(2mks)**

9. (a) (i) Define the term hydrological cycle. **(2mks)**

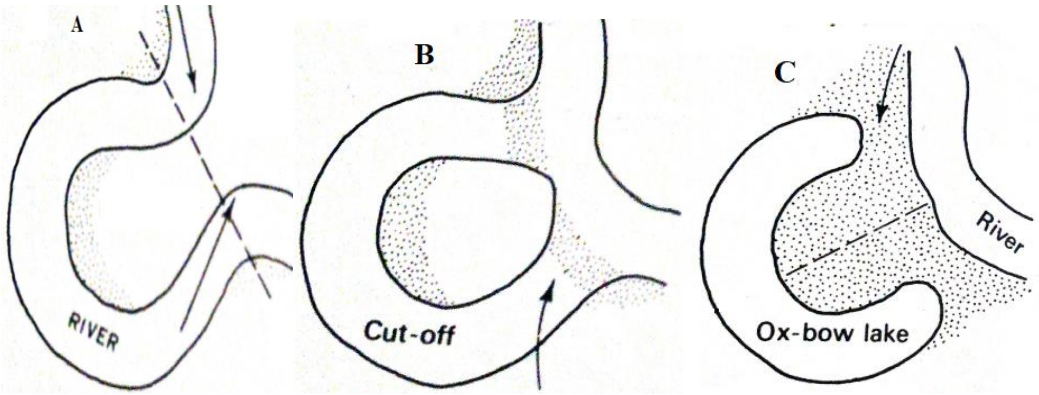
(ii) Explain the following processes of the hydrological cycle;

- Evaporation **(2mks)**
- Surface run off **(2mks)**

(b) Citing an example in each case, name **three** sources of rivers in Kenya. **(3mks)**

(c) State four factors that influence river erosion. **(4mks)**

(d) The diagrams below show formation of a feature of river deposition. Use them to answer the questions that follow.



(i) Describe the processes in the diagrams labeled:

- **A** **(1mk)**
- **B** **(2mks)**
- **C** **(2mks)**

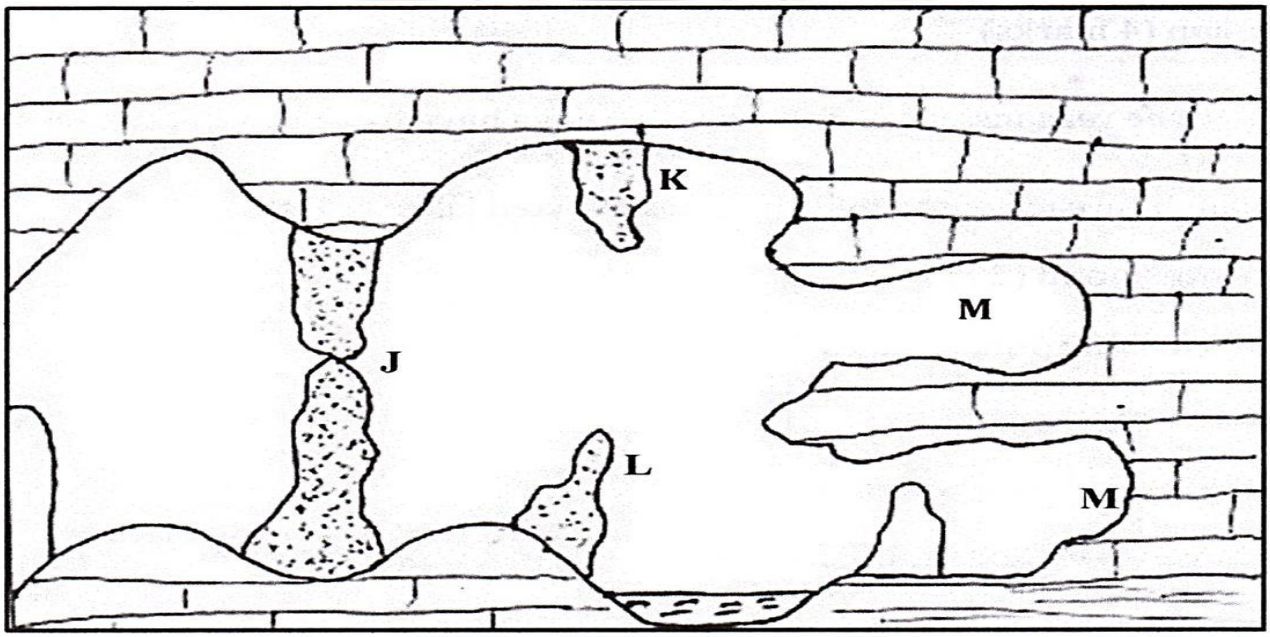
(ii) Name **two** examples of ox-bow lakes in Kenya. **(2mks)**

(e)Members of your class plan to conduct a field study on the lower course of River Nzoia.

(i) Give **two** equipment they are likely to carry for the study. **(2mks)**

(ii) State **three** characteristics of the river they are likely to observe during the study **(3mks)**

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



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(a) (i) Name the features marked **K,L and M.** **(3mks)**

(ii) Describe how the feature marked J is formed. **(6mks)**

(b) (i) What is a water table **(2mks)**

(ii) Explain **three** conditions necessary for the development of karst scenery. **(6mks)**

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

i Give **three** ways you would prepare before conducting the field study. **(3mks)**

ii Name **two** erosional features you are likely to identify during the field stud **(2mks)**

iii State **three** significance of the resultant features in limestone areas. **(3mks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 3

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. (a) (i) Define Geography. **(2 mark)**

(ii) Name **two** branches of Geography **(2 marks)**

(b) State **three** reasons why it is important to study Geography. **(3 marks)**

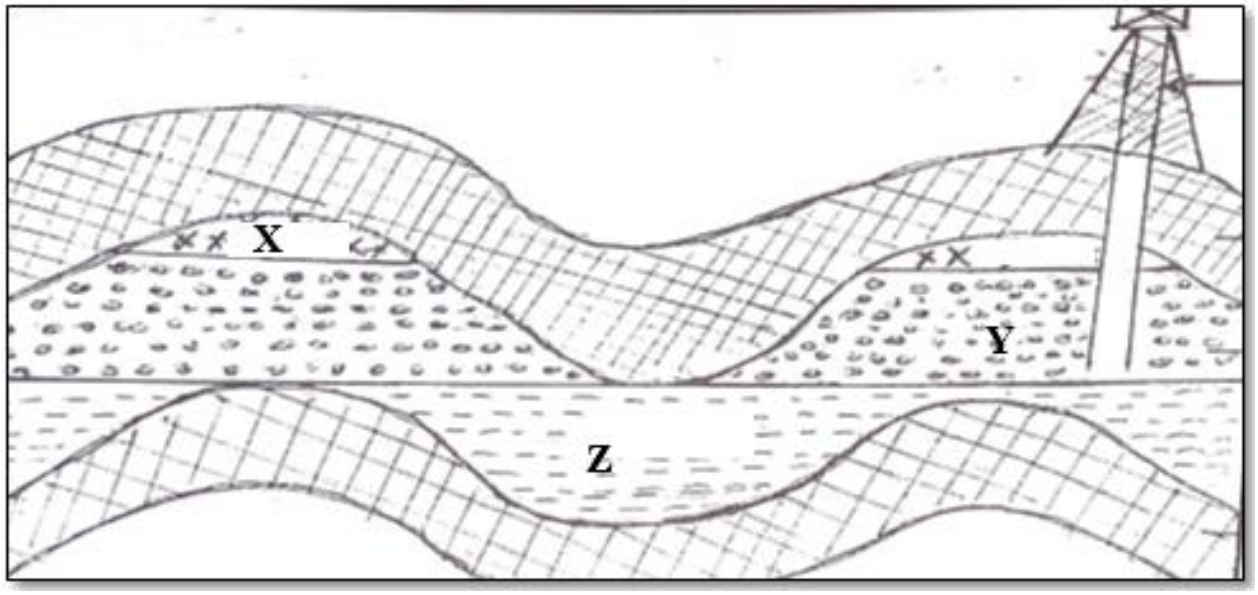
2. (a) Name **two** breeds of dairy cattle reared in Kenya. **(2 marks)**

(b) State **two** factors which favour dairy farming in Denmark. **(2 marks)**

3. (a) Give **two** types of ground photographs. (**2 marks)**

(b) State **two** limitations of using photographs. **(2marks)**

4. The diagram below shows the occurrence of petroleum on the earth crust. Use it to answer questions (a)and (b)



(a) Name the substance in the areas labeled**X**, **Y** and **Z.** **(3marks)**

(b) Give **two** by products obtained when crude oil is refined. **(2marks)**

5. (a) State **two** factors that influence the distribution forests in Kenya. **(2marks)**

(b) State **three** effects of deforestation to the environment. **(3marks)**

SECTION B

Answer question six (6) and any other two Questions from this section.

6. The table below shows three main crops produced in Kenya in the years 2008-2010 (Amounts in metric tonnes). Use it to answer questions below.

Crop	2008	2009	2010
Maize	200,000	380,000	400,000
Wheat	100,000	130,000	150,000
Tea	250,000	300,000	350,000

(a)(i) Using a scale of 1cm represent 50,000 metric tonnes, draw a comparative bar graph to represent the data above. **(8 marks)**

(ii). State **two** advantages of using comparative bar graph. **(2 marks)**

(b) i). Name **two** counties in Kenya where wheat is grown in large scale. **(2 marks)**

ii). State **three** conditions that favour wheat farming in Kenya. **(3 marks)**

(c). State **fou**r benefits of wheat growing in Kenya. **(4 marks)**

(d). Explain **three** factors that make Canada produce more wheat than Kenya. **(6 marks)**

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

(ii)Give four methods of underground mining. **(4 marks)**

(b) Explain how the following factors influence mining:

(i) Level of technology **(4 marks)**

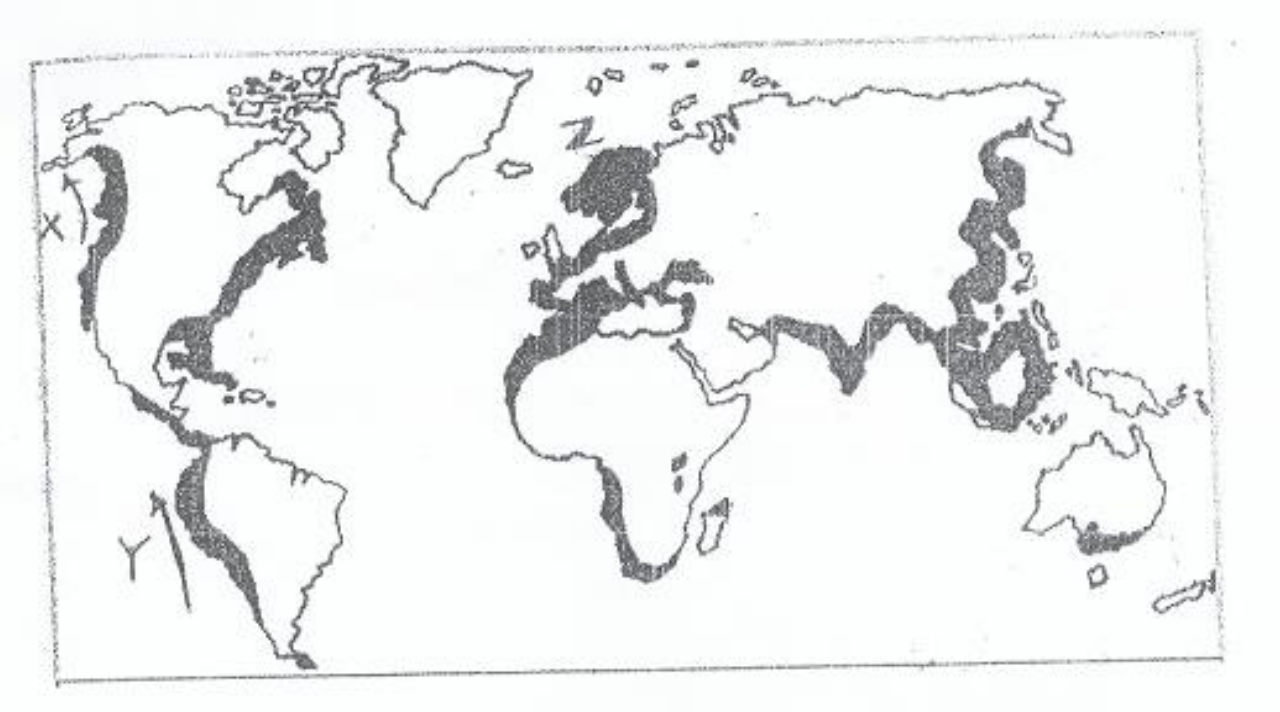
(ii) Quality of the ore **(2 marks)**

(c) Explain **four** benefits of trona mining at Lake Magadi to Kenya. **(8 marks)**

(d) State **five** negative effects of mining on the environment. **(5 marks)**

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8. Use the world map below to answer question (a).



(a) (i). Name the ocean currents marked x and Y. **(2 marks)**

(ii). Name the fishing ground marked Z. **(1 mark)**

(b).Explain **three** physical factors that favour fishing in the fishing ground marked Z.**(6 mks)**

(c) (i). What is fish farming? **(2 marks)**

(ii). Name **two** fish species reared in fish farms in Kenya. **(2 marks)**

(iii). Explain **four** problems which are experienced by fish farmers in Kenya. **(8 marks)**

(d). Give **four** uses of fish. **(4 marks)**

9. a) State the difference between forest and forestry. **(2marks)**

b) Explain **four** measures that the Government of Kenya is taking to conserve forest in the country. **(8marks)**

c) i) List any **three** examples of softwood tree species found in Canada. **(3marks)**

ii)State and explain any **three f**actors that have favoured forestry in Canada. **(6marks)**

d)You intend to carry out a field study on forestry within your local environment.

i)State **three** objectives you would formulate for the study. **(3marks)**

ii)Give **three** reasons why it is important to have a working schedule. **(3marks)**

10. a)i). Differentiate between Land Reclamation and Land Rehabilitation. **(2marks)**

ii). Give three methods used in reclaiming land in Kenya. **(3marks)**

b i). State three benefits of reclaiming Yala swamp. **(3marks)**

ii). State four physical conditions that favour the establishment of Perkerra Irrigation Scheme. **(4marks)**

c. Explain three problems faced by rice farmers in Mwea Irrigation Scheme. **(6marks)**

d. i). What is a polder? **(lmark)**

ii). Outline the stages involved in reclaiming land from the sea in the Netherlands. **(6marks)**

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KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 4

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- ***a)*** *This paper consists of **two** sections **A** and **B.***
- ***b)*** *Answer all the questions in section **A.***
- ***c)*** *Answer question **six** and any other **two** questions from section **B***
- ***d)*** *All answers must be written in the answer booklet provided*

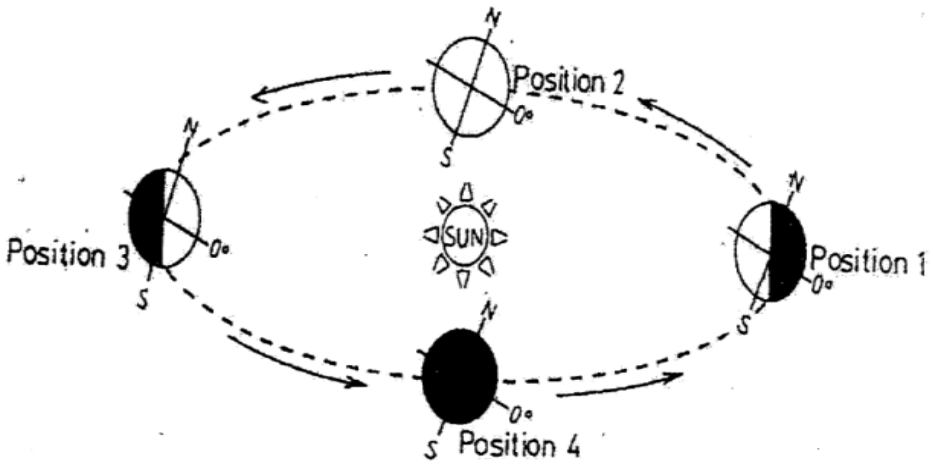
FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

Answer all the questions in this section.

1. Study the diagram below and then answer the following questions



(a). How long (in days) does it take the earth to move from position 2 to position 1 during a leap year? **(2mks)**

(b). State **three** effects of the movement of the earth represented above **(3mks)**

2. (a). Define the term microclimates **(2mks)**

(b). Identify t**hree** characteristics of convectional rainfall **(3mks)**

3. Describe **two** process through which wind erode desert landscape **(6mks)**

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

(b). State **three** characteristics of Mediterranean type of vegetation **(3mks)**

5. (a). What is contact metamorphism? **(2mks)**

(b). Identify the resultant metamorphic rocks when the following rocks are metamorphosed.

(i). Granite **(1mk)**

(ii) Limestone **(1mk)**

SECTION B

Answer question 6 and any other two questions from this section

6) (a) Study the map of **Kisumu East** 1:50,000 (sheet 116/2) provided and answer the following;

i. What type of map is Kisumu East map extract? **(1mark)**

ii. Give two scales that have been used in the map extract. **(2marks)**

iii. What is the bearing of the trigonometrical station at grid square 0383 from the Air Photo Principal Point at grid square 0281? **(2marks)**

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(b). i. Measure the length of the All Weather Road Bound Surface B2/1 from the junction at Grid square 9793 to the western edge of the map extract. Give your answer in kilometer**.** **(2marks)**

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

(c). Draw a rectangle measuring 16cm by 10cm to represent the area enclosed by Eastings 02 and 10 and Northing 90 and 00. **(1mark)**

On the rectangle, mark and name the following. **(4mrks)**

- Nyando escarpment.
- All Weather Road Bound Surface C543/1
- Prison
- Agricultural Sugar Research Station.

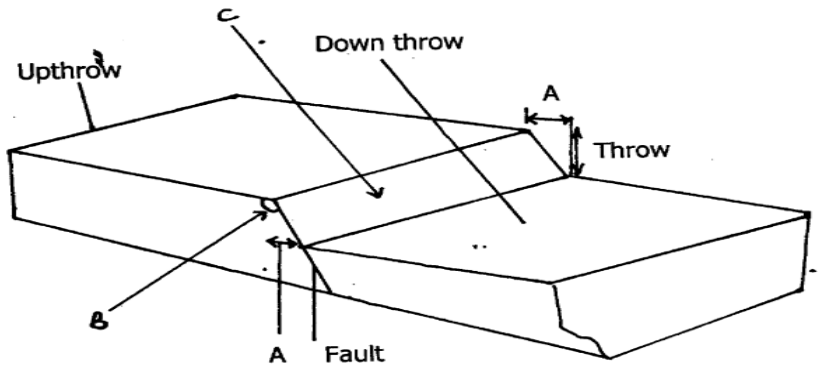
(d). i. Describe the drainage of the area covered by the map. **(5marks)**

ii. Citing evidence from the map, identify three social services offered in Kisumu Municipality. **6marks)**

7) (a). (i). Differentiate between orogenesis and orogeny **(2mks)**

(ii). Name **two** Fold Mountains of the alpine orogeny **(2mks)**

(b). The following diagram represents a faulted landscape. Use it to answer the following questions.



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

(ii). Using well labeled diagrams ,Describe how a rift valley is formed through anticlinal arching **(7mks)**

(c). State **three** effects of faulting on drainage **(3mks)**

(d). Explain the effects of Fold Mountains to human activities **(8mks)**

8. (a) (i). Differentiate between weathering and mass wasting **(2mks)**

(ii). Identify **three** agents of weathering **(3mks)**

(b). Describe how the following processes of weathering occur

(i). Pressure release or unloading (**4mks)**

(ii). Carbonation **(3mks)**

(c). Explain the significance of weathering to human activities **(8mks)**

(d). Form four students from Danish Obara Secondary School conducted a field study on weathering around their school

(i). State **three** preparation they made before the field study **(3mks)**

(ii). Write down **two** hypotheses they formulated to guide the study **(2mks)**

9. (a). Distinguish between catchment area and a drainage basin **(2mks)**

(b) . (i). Describe **two** processes through which a river transport its load **(6mks)**

(ii). State **four** factors which influence the ability of a river to transport its load **(4mks)**

(c). Using a well labeled diagram, explain how an ox-bow lake is formed **(7mks)**

(d). (i). What is the difference between drainage pattern and drainage system? **(2mks)**

(ii). State **five** importance of rivers to human activities **(5mks)**

10. (a). (i). Differentiate between an aquifer and an aquifuge **(2mks)**

(ii). Name **three** sources of underground water **(3mks)**

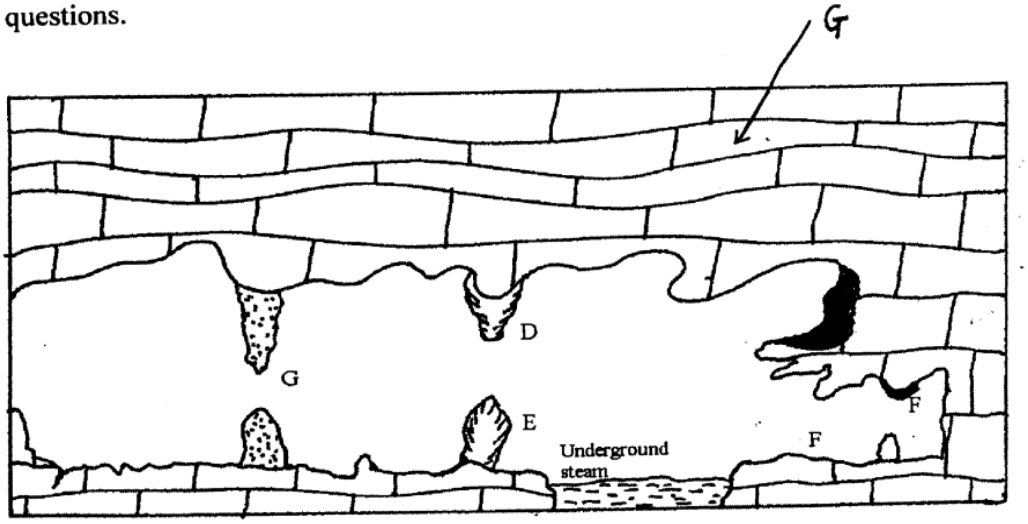
(b). State four conditions necessary for the formation of artesian wells **(4mks)**

(c). (i). Name **four** surface features formed in areas dominated by limestone **(3mks)**

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(ii). The diagram below represents underground features formed in a karsts landscape .Use it to answer the following questions

lowing questions.



(i). Name the features marked D,E and G **(3mks)**

(ii). Describe how a limestone pillar is formed **(3mks)**

(d). Explain three effects of karst scenery to human activities **(6mks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 4

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. (a). What is water pollution ? **(2mks)**

(b) state three sources of pollution along the East African Coastal waters **(3mks)**

2. (a) Differentiate between ***biomass*** and ***biogas*** forms of energy **(2mks)**

(b). Give three reasons why the two sources in 2 (a) above should be developed **(3mks)**

3. (a). Name two counties in Rift Valley where Dairy farming is practiced in Kenya **(2mks)**

(b) State four problems facing dairy farmers in Kenya **(4mks)**

4. (a) State three physical factors that favor the growth of cocoa in Ghana **(3mks)**

(b) Name two countries which imports cocoa from Ghana as a raw material **(2mks)**

5. (a) Define international trade **(1mk)**

(b) Give three reasons why Kenya's trade is mainly in raw form rather than finished products **(3mks)**

SECTION B (75 MARKS)

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

6. The table below shows horticultural crops exported by Kenya in the year 2010 to European Union. Study it and answer the questions that follow

CROP	QUANTITY IN TONNES
Flowers	42,500
Oranges	28,700
Tomatoes	21,600
Carrots	15,400

(a) Draw a divided rectangle 15 cm long by 6 cm wide to represent horticultural crop production in Kenya in year 2010 using the data above (show your workings/calculations) **(8mks)**

(b). Calculate the range of the above data **(1mk)**

(c). Apart from divided rectangles, Name two other appropriate ways of representing the above data **(2mks)**

(**d).** Name two deciduous fruits exported by Kenya to European Union market **(2mks)**

(e) Explain two physical conditions favoring the development of horticultural industry in Naivasha **(4mks)**

(f). Explain how the Kenya Government is addressing problems facing horticultural farmers **(8mks)**

7. (a). i). What is agro forestry? **(1mk)**

ii). Explain four reasons why agro forestry is being encouraged In Kenya (**8mks)**

(b). Give three examples of softwood trees found in Kenya **(2mks)**

(c). Explain four characteristics of softwood forests in Canada **(8mks)**

(d). State problems affecting forestry in Canada **(5mks)**

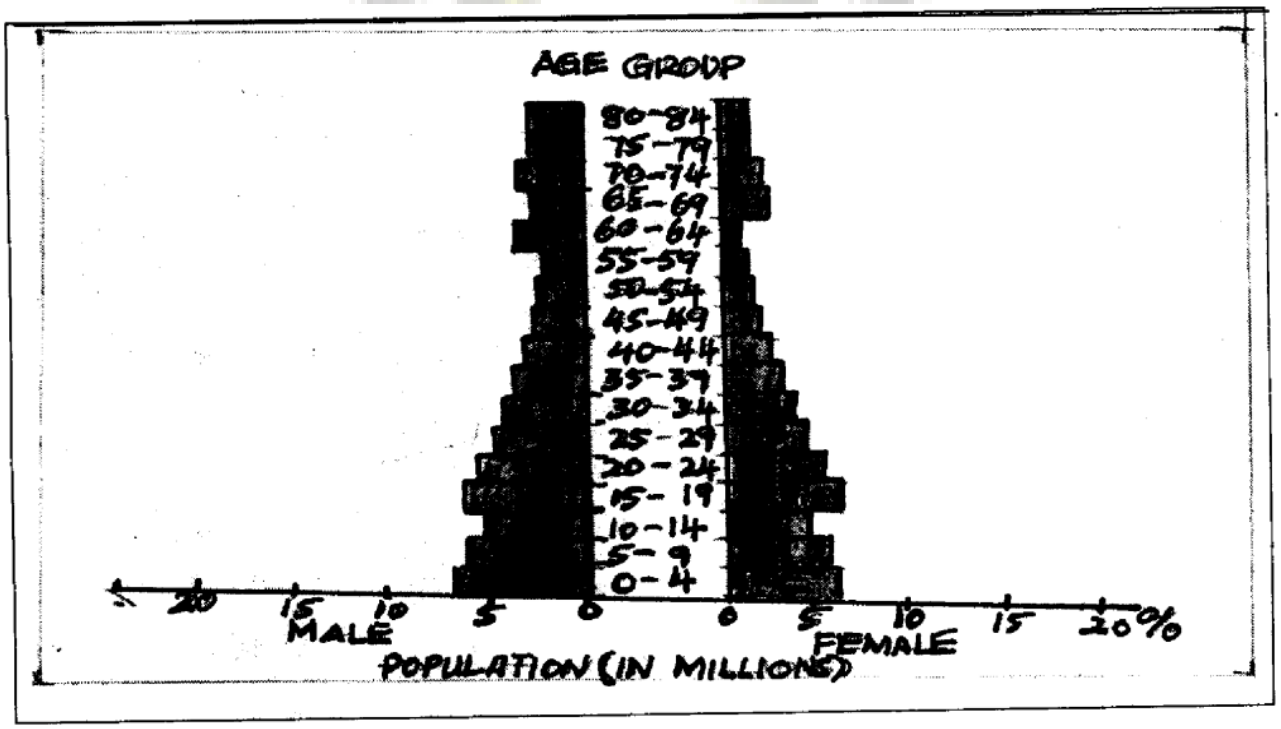
8. (a) i) Define Age-structure **(2mks)**

ii). What was the population growth rate in Kenya in 1999,if the crude birth rate was 52 per 1,000 of the population and the crude death rate was 14 per 1,000 of population? **(2mks)**

iii). State three reasons why it is necessary to carry out population census **(3mks)**

(b). Account for the high population density in the Kenyan highlands **(2mks)**

(c) The pyramid below represents the population structure of Country X.Use it to answer questions that follow.



i. Describe the characteristics of the population represented by the pyramid **(5mks)**

ii. Other than migration, explain three factors influencing population growth and structure **(6mks)**

iii. State two positive effects of population growth and structure **(2mks)**

iv. Give three problems that could arise from overpopulation **(3mks)**

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9. (a). Explain how the following factors influence mining **(3mks)**

i). Capital

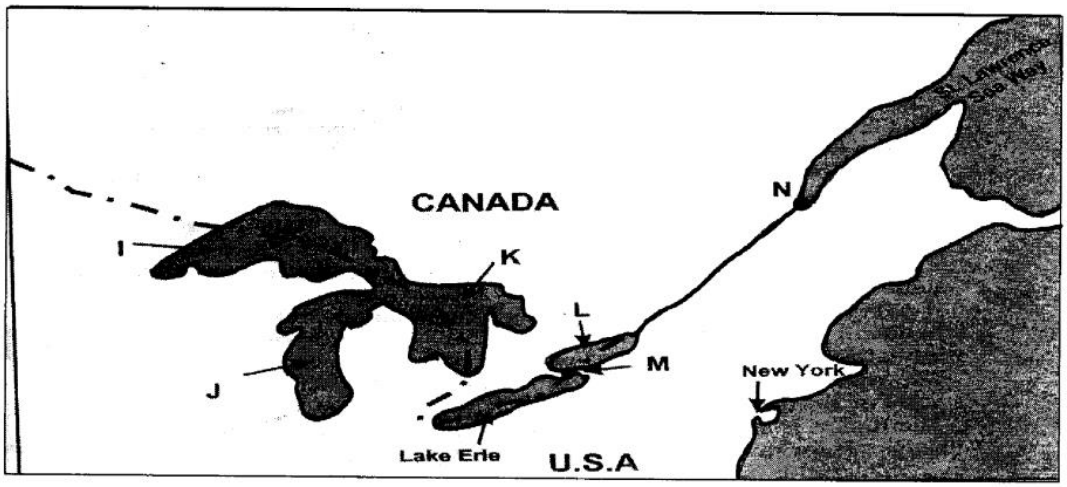
ii)Value of mineral **(3mks)**

(b). Name four methods of underground mining **(4mks)**

(c) Explain five factors which influence occurrence of minerals. **(10mks)**

(d). Explain how gold is processed to its finest form **(5mks)**

10. Study the map of the Great Lakes and the St.Lawrence Seaway below and answer the question that follow



(a). Name

i). The port marked N **(1mk)**

ii) The waterfall marked M **(1mk)**

iii). The lake marked I,J,K and L **(4mks)**

(b). Explain five ways in which the great lakes and St.Lawrence Seaway has contributed to the economy of U.S.A and Canada **(10mks)**

(c). i).State three recent developments that have taken place in Kenya to improve communication **(3mks)**

ii). Explain three problems facing telephone as a means of communication in Kenya **(6mks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 5

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

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A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. **(a)** Define weather **(2marks)**

(b) State five factors considered when siting a weather station. **(5marks)**

2. **(a)** State two ways that make it possible for geographers to study the earth's interior.**(2marks)**

(b) State 3 changes that may occur in a rock after it has undergone metamorphism.**(3marks)**

3. **(a)** Differentiate between folding and faulting. **(2marks)**

(b) Citing an example on each period, state 4 orogenesis periods in fold mountain formation. **(4marks)**

4. **(a)** Differentiate between a spring and a well. **(2marks)**

(b) State three ways by which springs develop. **(3marks)**

5. Give two ways in which mulching improves soil. **(2marks)**

SECTION B

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

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

(a) i) What is the bearing of the trigonometrical station at Grid reference 081980 from the rock out crop at grid reference 071992. **(2 marks)**

ii) Measure the length of the all – weather road (bound surface) B 2/1 from the junction at grid reference 974911 to the edge of the Map, grid reference 947967.(Give your answer in kilometers) **(2 marks)**

iii) Draw a rectangle 10m by 15cm to represent the area covered by the map. On a rectangle, mark and name: **(1 mark)**

- A lake **(1 mark)**
- A plantation **(1 mark)**
- River Luando **(1 mark)**

b) i) Describe the relief of the area covered by the map. **(4 marks)**

ii) Explain how relief has influenced settlement in the area covered by the map. **(4 marks)**

b) Citing evidence from the map, give **three** economic activities carried out in the area covered by the map. **(3 marks)**

c) Students from the school at Masogo (grid square 0681) carried out a field study of the course of River Ombeyi.

i) State **three** findings they are likely to have come up with **(3 marks)**

ii) Give **three** advantages of studying rivers through field work **(3 marks)**

7. (a) Define the term vulcanicity **(2marks)**

(b) Give four characteristics of a composite volcano. **(4marks)**

(c) Describe how a lava plateau is formed. **(4marks)**

(d) Explain four negative effects of vulcanicity. **(8marks)**

(e) You intend to carry out a field study of an area affected by vulcanicity.

(i) Give four sources of information that you would use in the preparation for the study **(4mks)**

(ii) Give three factors that would make it difficult for you to collect accurate data during the field study. **(3marks)**

8 (a) Give three agents of weathering **(3marks)**

(b) Describe frost action as a process of weathering. **(4marks)**

(c) Explain how an exfoliation dome is formed. **(5marks)**

(d) Explain 3 factors that influence the rate of mass wasting. **(6marks)**

(a) State four slow types of mass wasting. **(4marks)**

(b) Give three positive effects of mass wasting. **(3marks)**

9. (a) (i) State three factors that influence transportation of materials in the sea. **(3marks)**

(ii) Draw a simple well labeled diagram of a sea wave. **(3marks)**

(iii)Give three ways in which islands are formed. **(3 marks)**

(b) Explain the following processes of wave erosion.

(i) Hydraulic action **(3marks)**

(ii) Solution **(2marks)**

(c) Describe the formation of a spit. **(5marks)**

(d) Explain 3 economic importances of coastal landforms. **(6marks)**

10. (a) State four physical factors that contribute to development of deserts. **(4marks)**

(b) Give four characteristics of desert landscape. **(4marks)**

(c) Explain three factors that influence wind transport in the desert. **(6marks)**

(d) Describe how a deflation hollow is formed. **(4marks)**

(e) You carried out a field study in a desert landscape.

(i) State four preparations for your study. **(4marks)**

(ii) List three water depositional features you identified. **(3marks)**

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KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 5

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- ***a)*** *This paper consists of **two** sections **A** and **B.***
- ***b)*** *Answer all the questions in section **A.***
- ***c)*** *Answer question **six** and any other **two** questions from section **B***
- ***d)*** *All answers must be written in the answer booklet provided*

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SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

Answer all the questions in this section.

1. **(a)** What is environment? **(2marks)**

(b) Identify two effects of the following environmental hazards.

(i) Earthquakes **(2marks)**

(ii) Nuclear wastes **(2marks)**

2. **(a)** Name two species of hardwood forests grown in Kenya. **(2marks)**

(b) State three factors that favour the development of softwood forest in Kenya. **(3marks)**

3. **(a)** Define mining. **(2marks)**

(b) Describe two factors that have influenced exploitation of minerals. **(4marks)**

4. **(a)** Give two types of ground photographs. **(2marks)**

(b) State two limitations of using photographs. **(2marks)**

5. **(a)** Name two exotic dairy cattle breeds reared in Kenya. **(2marks)**

(b) State two physical factors, which favour dairy farming in Denmark. **(2marks)**

SECTION B

Answer QUESTION 6 and any other TWO questions in this section.

6. The table below shows the vehicles moving past the D.C's gate on Monday between 8:30a.m to 8:30p.m.

Period	Isuzu	Leyland	Toyota	Nissan	Others	TOTAL
8:30 – 10: 30a.m	100	150	300	240	80	
2:30 – 4: 30p.m	40	60	70	20	80	
6:30 – 8: 30p.m	120	130	90	140	120	
TOTAL	**260**	**340**	**460**	**400**	**280**	

(a) Find the grand total of vehicles moving past the gate on Monday. **(2marks)**

(b) Draw a simple pie chart to show the type of vehicles moving past the gate on Monday (radius = 3cm) **(8marks)**

(c) Outline the merits of using a simple pie chart to represent the above data. **(5marks)**

(d) Apart from pie charts, give other five ways used to present statistical date. **(5marks)**

(e) Identify five methods of collecting statistical data. **(5marks)**

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7. (a) Name the main types of natural forests in the world. **(3marks)**

(b) Explain the significance of forests and forest products in Kenya. **(10marks)**

(c) What has Kenya government done to conserve and manage forest? **(5marks)**

(d) (i) State 5 factors influencing the distribution of natural forests. **(5marks)**

(ii) Define forest management. **(2marks)**

8. (a) Define a mineral. **(2marks)**

(b) Explain the forms in which minerals occur. **(8marks)**

(c) State five significance of minerals in Kenya. **(5marks)**

(d) Students from Mtwapa High School went out for a field study in L. Magadi.

(i) Name 3 preparations they made before the study. **(3marks)**

(ii) Identify 2 problems they might have encountered during the study. **(2mark)**

(e) State 5 importance of studying geography through field work. **(5marks)**

9. (a) (i) State three social factors which influence agriculture . **(3marks)**

(ii) Name two types of maize grown in Kenya. **(2marks)**

(b) (i) Name two areas in Kenya where maize is commercially grown. **(2marks)**

(ii) Describe the stages involved in the industrial processing of maize. **(4marks)**

(a) Identify 4 problems facing maize farmers in Kenya. **(4marks)**

(d) (i) Explain ways through which the Kenya government assists small scale maize farmers. **(6marks)**

(ii) State 4 uses of maize. **(4marks)**

10.(a) (i) What is Natural vegetation. **(1mark)**

(ii) State two topographical factors influencing distribution of vegetation. **(2marks)**

(b) You are required to carry out a field study of vegetation around your school.

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

(ii) How would you record the findings in your study? **(4marks)**

(c) Draw a well labeled diagram to show vegetation zonation on a mountain slope. **(8marks)**

(d) (i) Highlight five adaptational features of tropical desert vegetation. **(5marks)**

(ii) Identify two economic importance of desert vegetation. **(4marks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 6

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

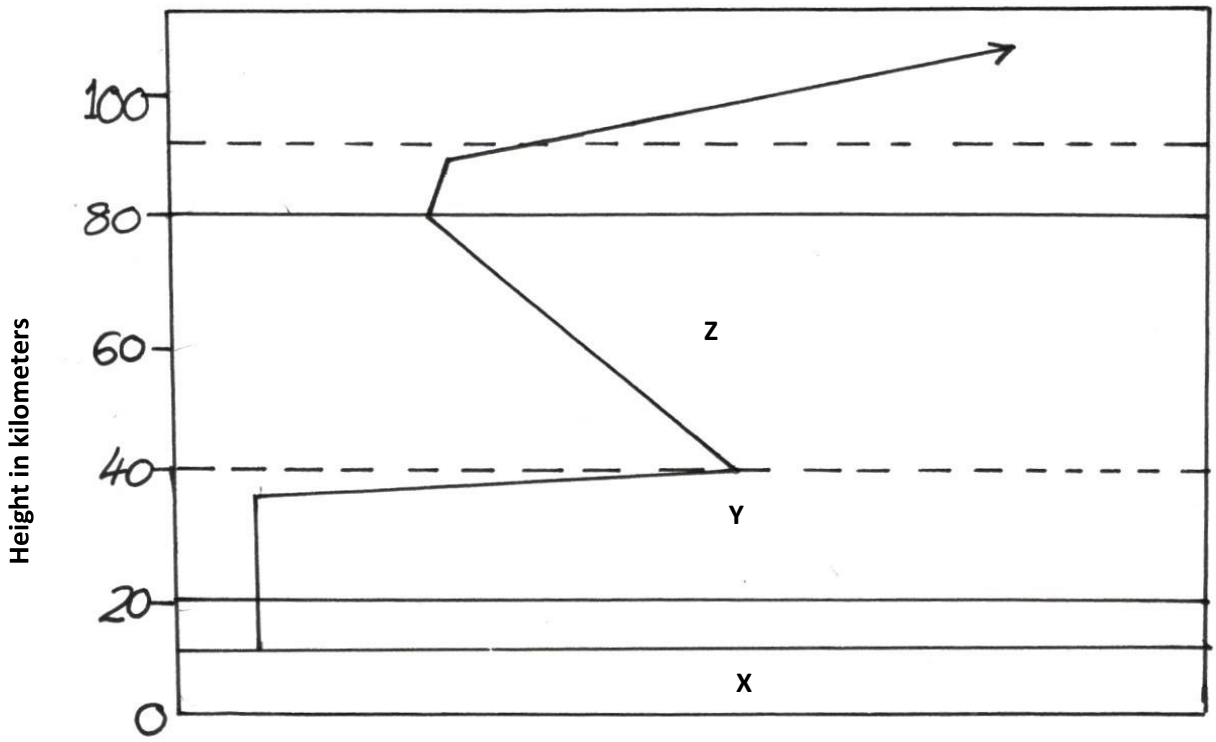
1. **(a)** State how each of the following forces influence the shape of the earth.

(i) Gravitational force **1mk)**

(ii) Centrifugal force **1mk)**

(iii) Centripetal force **1mk)**

2. The diagram below depicts the structure of the atmosphere. Study it and answer the questions that follow.



Identify the marked parts. **(3mk)**

State any two characteristics of layer marked X above. (ii) **(2mks)**

3. List three importance of the carbon dioxide found in the atmosphere. **(3mks)**

4. **(a)** Define the term lake. **(2mks)**

State and explain any four reasons why most of the lakes in Rift-valley are saline. **(8mks)**

5. Give ways in which a lake acquires its load. **(2mks)**

SECTION B

Answer Question 6 and Any Other Two Questions from this Section.

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

(a) i) Convert the ratio scale into statement scale. **(2 marks)**

ii) Identify two methods that have been used to represent relief on the map. **(2 marks)**

iii) Name three physical features found in grid square 0298. **(3 marks)**

(a) **i)** Give the six figure grid reference of the Air Photo Principal point to the East of Obumba School. **(2 marks)**

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

(d) i) Citing evidence, name three social services offered in the area covered by the map. **(6 mks)**

ii) Explain three factors that may have influenced the distribution of settlements in the area. **(6 mrks)**

7. (a) (i) Distinguish between a solfafara and a mofelfe. **(2mks)**

(ii) Name two areas in Kenya where geysers are found. **(2mks)**

(iii) State two economic benefits of geysers. **(2mks)**

(b) (i) With the aid of well labelled diagrams, describe how a caldera is formed by violent explosion. **(8mks)**

(ii) Explain three negative effects of volcanicity in Kenya. **(6mks)**

(d) Your class intends to carry out a study on a volcanic landscape.

State two objectives of the study. **(2mks)**

State three follow-up activities you are likely to carry out. **(3mks)**

8. (a)(i) What is a continental shelf? **(3mks)**

(ii) State three characteristics of a continental shelf. **(3mks)**

(b) (i) Distinguish between a constructive and destructive wave. **(2mks)**

(ii) Explain three processes of a wave erosion. **(6mks)**

With the aid of well labelled diagrams, describe the formation of the following features;

(i) An offshore bar **(4mks)**

(ii) Tombolo **(4mks)**

Suppose you carried out a field study along the Kenyan coast.

List two features of coastal emergence you are likely to have identified. **(2mks)**

State three benefits of emerged coastal features to man you are likely to have identified. **(3mks)**

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9. (a) (i) Distinguish between natural vegetation and derived vegetation. **(2mks)**

(ii) State two reasons why mountain tops have no vegetation. **(2mks)**

(b) Give four advantages of coniferous forests to the climatic conditions. **(2mks)**

(i) Explain three factors that have led to the decline of natural grasslands in Kenya. **(6mks)**

(ii) Identify four areas which experience Mediterranean climate. **(4mks)**

You are to carry out a field study on a forest around your school.

(i) State three advantages of rampling part of the forest. **(3mks)**

(ii) Give reasons why you would require a working schedule. **(4mks)**

10. (a) Explain why the following factors influence rainfall:

(i) Air masses **(2mks)**

(ii) Forests **(2mks)**

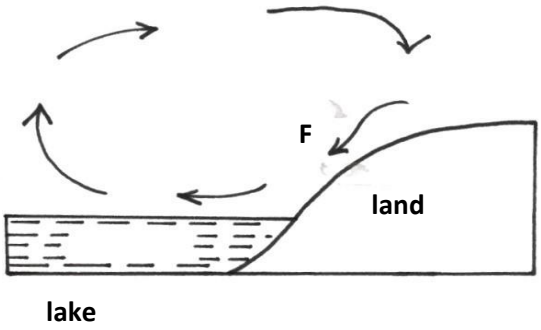
(iii) Water bodies **(2mks)**

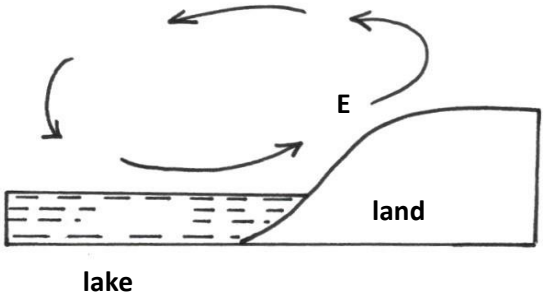
Give four reasons why the recording of data at a school weather station may be inaccurate. **(4mks)**

(i) What is the Inter tropical Convergence Zone (ITCZ)? **(2mks)**

(ii) State the characteristics of the ITCZ**.** **(5mks)**

The diagram below represents the flow of air currents. Use them to answer the question a.





Name the air current marked F. **(1mk)**

Why does the air current marked E blow during the day? **(2mks)**

Explain the problems associated with convectional rainfall in the lake region of Kenya**.** **(2mks)**

Explain how air cools as it rises into the atmosphere. **(3mks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 6

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. **(a)** Name **two** provinces in Canada where wheat is grown in large scales. **(2 marks)**

(b) List **three** economic factors that influence agriculture. **(3 marks)**

2. (a) Name **two** horticultural crops grown in Kenya. **(2 marks)**

(b) State **three** reasons why horticulture is more developed in the Netherlands than in Kenya. **(3 marks)**

3. (a) State **three** reasons why marine fisheries in Kenya are underdeveloped. **(3 marks)**

(b) State **three** ways through which fish farming contributes to the economy of Kenya. **(3 marks)**

4. (a) Differentiate between transport and communication. **(2 marks)**

(b) State **three** modern means of communication used in Kenya besides cellphones. **(3 mrks)**

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

Region	Population in Millions	
	Years	
	2000	2005
Nairobi	2.229	2.751
Central	3.882	4.038
Coast	2.662	2.927
Eastern	4.840	5.120
North-Eastern	1.054	1.438
Nyanza	4.598	4.916
Rift-Valley	7.386	8.366
Western	5.532	3.885
Total	**30.183**	**33.441**

(a) Which region had the highest change in population between 2000 and 2005? **(2 marks)**

(b) Calculate the percentage increase in population in Kenya between 2000 and 2005. **(2 mrks)**

SECTION B

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

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



(a) (i) Name the type of photograph shown. **(1 mark)**

(ii) Draw a rectangle measuring 15cm by 10cm to represent the area of the photograph. **(1 mrk)**

(iii) On the rectangle, draw a sketch of the photograph and label three physical features. **(3 mrks)**

(iv) Explain **two** physical conditions that would discourage setting up of a game park in the area shown on the photograph. **(4 marks)**

(b) Apart from national parks, outline **four** other ways in which wildlife is conserved in Kenya. **(4 marks)**

(c) Give **four** reasons why domestic tourism is being encouraged in Kenya. **(4 marks)**

(d) Explain **four** factors which make switzerland receive more tourists than Kenya. **(8 marks)**

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

(ii) Explain **three** factors that favour the growth of natural forests on the slopes of Mt. Kenya. **(6 marks)**

(iii) State **five** factors that have led to the reduction of the area under forest on the slopes of Mt. Kenya. **(5 marks)**

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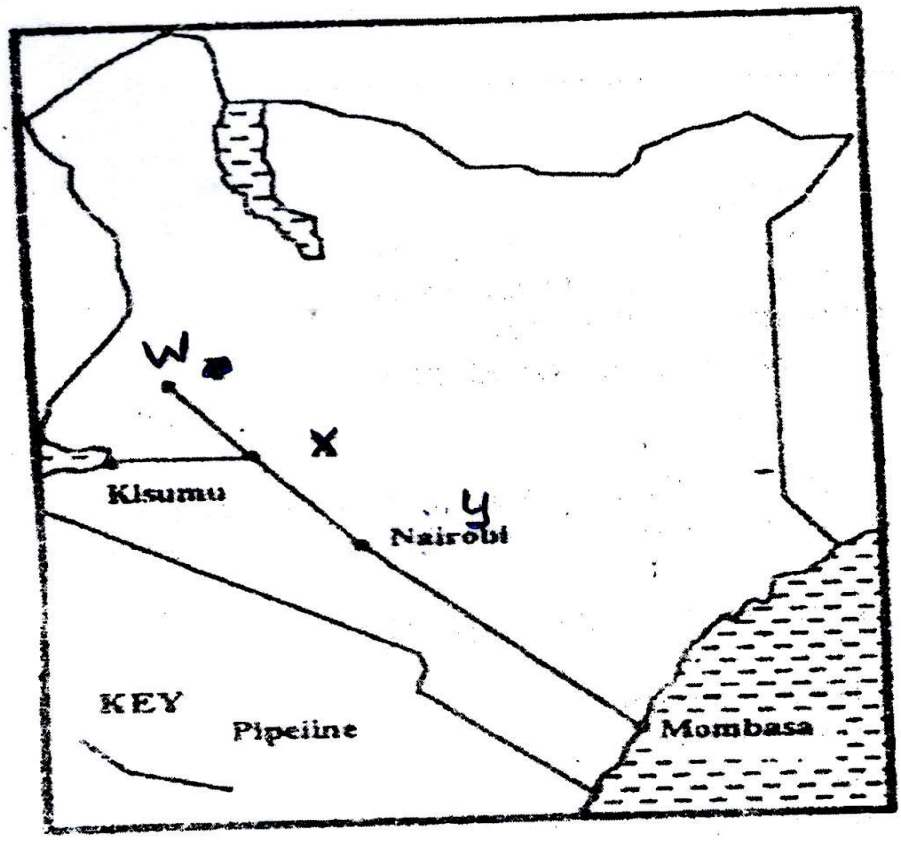
(b) Explain **four** measures that the govrnment of Kenya is taking to conserve forests in the country. **(8 marks)**

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

(i) Period of harvesting **(2 marks)**

(ii) Transportation **(2 marks)**

8. (a) The map below shows some major tea growing areas in Kenya.



(i) Name the areas marked W, X and Y. **(3 marks)**

(ii) State **four** physical conditions that favour tea growing in Kenya. **(4 marks)**

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

Years	Tea Produced (in tonnes)
1975	56,000
1985	137,000

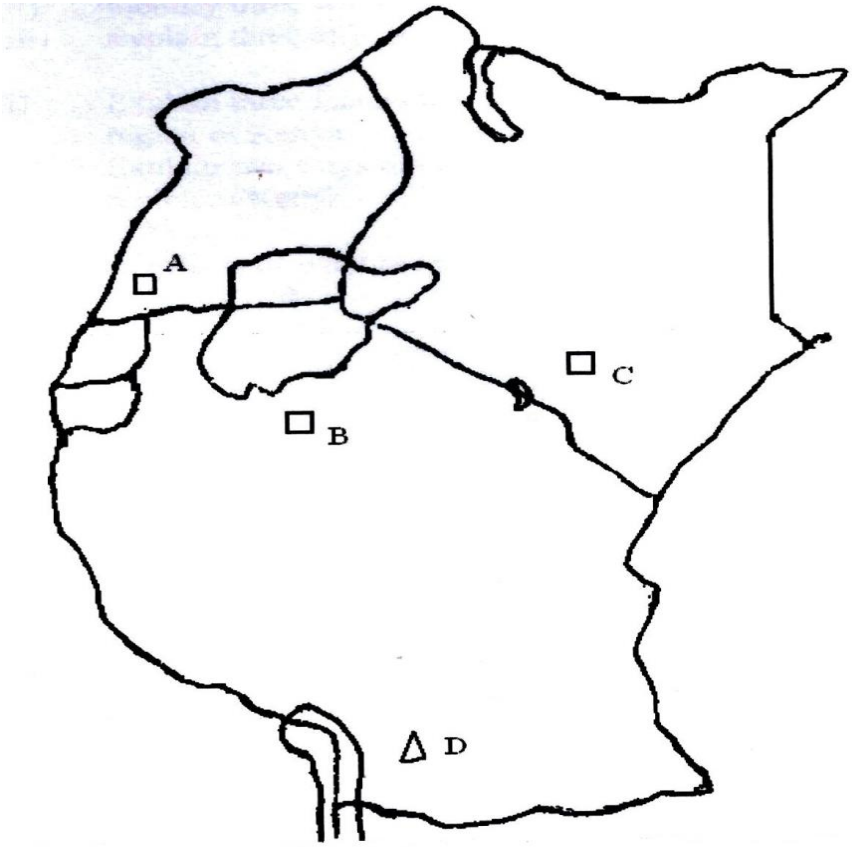
(i) Calculate the percentage increase in tea production over the ten years period between 1975 and 1985. **(2 marks)**

(ii) Give **two** reasons why there was such an increase in tea production over the given period. **(2 marks)**

(c) Describe the stages through which tea is processed from picking to the time its ready for marketing. **(6 marks)**

(d) Explain **four** problems experienced in small scale farming in Kenya. **(8 marks)**

9. A map of East Africa showing minerals distribution.



Use the map of East Africa above to answer question (a).

(a) (i) Name the mineral mined at points A, B, C, D. **(4 marks)**

(ii) Give **three** by products obtained when crude oil is refined. **(3 marks)**

(b) (i) Explain how trona is processed after reaching the factory. **(7 marks)**

(ii) List **three** uses of soda ash. **(3 marks)**

(c) Explain **four** effects of the rising prices of crude oil in the economy of Kenya. **(8 marks)**

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10. (a) (i) Apart from water and air pollution, name **two** other types of pollution. **(2 marks)**

(ii) Identify **three** ways through which water is polluted **(3 marks)**

(iii) Explain **three** effects of air pollution on the environment. **(6 marks)**

(b) (i) Explain **three** factors that lead to frequent flooding in the lake region of Kenya.

(6 marks)

(ii) Explain **two** ways through which floods are controlled in the lake region of Kenya.

(4 marks)

(c) State **four** effects of wind as an environmental hazard in Kenya. **(4 marks)**



KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 7

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. (a) What is geography? **(2marks)**

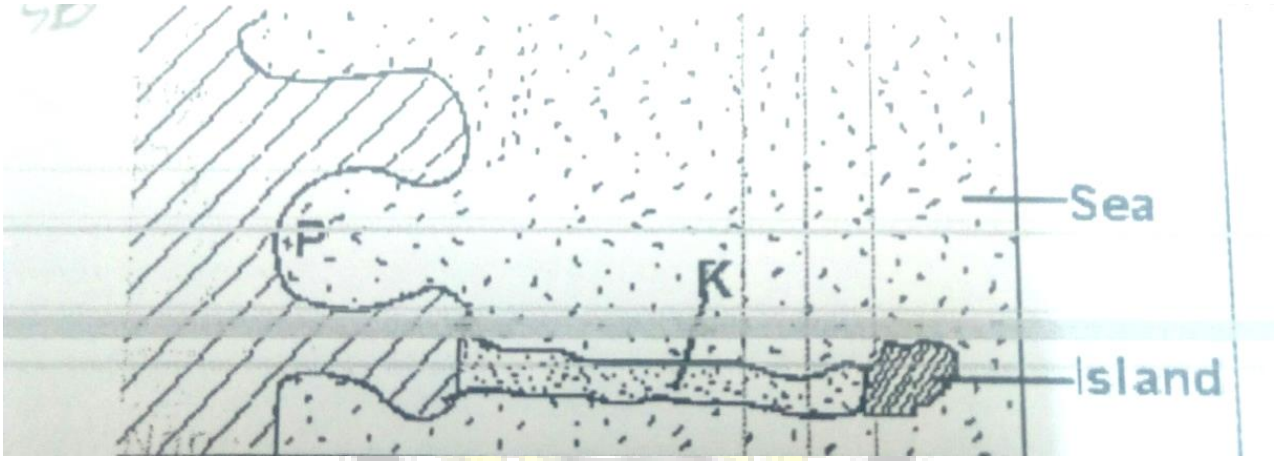
(b) Give three proofs that the earth is almost spherical in shape. **(3marks)**

2. (a) Differentiate between weathering and mass wasting. **(2 marks)**

(b) State three causes of landslides. **(3 marks)**

3. Describe the formation of planet earth according to the passing star theory. **(5 marks)**

4. The diagram below shows a coastal landform.



(a) Name the features marked P and K. **(2marks)**

(b) List down three types of ocean tides. **(3marks)**

5. (a) Name the types of earth movements that occur within the earth's crust. **(2marks)**

(b) Describe the origin of continents according to the theory of continental drift. **(3marks)**

SECTION B

Answer question 6 and any other two questions in this section

6. Study the map of **Kisumu 1:50,000** (sheet 116/2) provided and answer the following questions.

a. i) Give the longitudinal extent of the area covered by the map? **(1 mk)**

ii) Name the three human-made features in the grid square 0193. **(3 mks)**

iii) Identify two methods used to show relief on the map. **(2 mks)**

iv) Calculate the area of Kisumu town. Give your answer in square kilometres**.** **(2 mks)**

v) Name two types of natural vegetation. **(2 mks)**

b. Draw a square 10cm by 10cm to represent the area enclosed by easting 00 and 10, and Northings 80 and 90. **(1 mk)**

On it mark and name the following

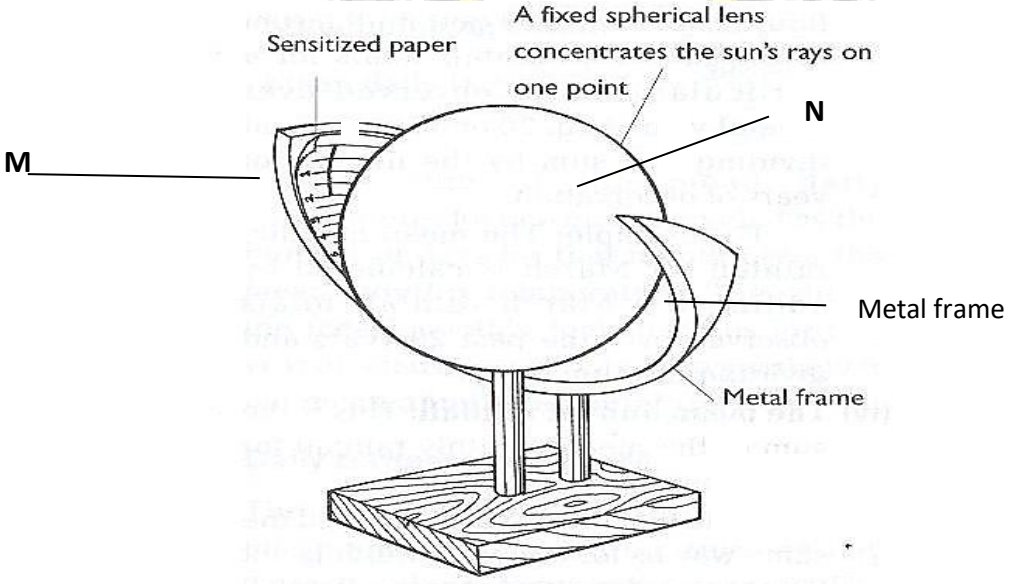
- Air photo principal point (04) **(1 mk)**
- Chinga market **(1 mk)**
- All weather road bound surface. **(1 mk)**
- River Ombeyi. **(1 mk)**

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

d. Citing evidence from the map, give three economic activities carried out in the area by the map. **(6 mks)**

7. (a) Name two instruments kept in a Stevenson screen. **(2 marks)**

(b) The diagram below shows a weather measuring instrument. Use it to answer the questions below.



(i) Name the parts marked M and N. **(2 marks)**

(ii) Describe how the instrument works. **(4 marks)**

(c) The table below shows climatic figure for station Q. Use it to answer the questions that follow.

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp in ^{0}C	30	31	31	29	27	27	28	29	28	28	27	30
Rainfall in mm	257	246	231	234	207	201	218	227	234	240	235	230

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(i) Calculate the annual range of temperature for station Q. **(2 marks)**

(ii) Give four characteristics of climate for station Q. **(4 marks)**

(d) With the aid of a well-labelled diagram, describe the formation of cyclonic rainfall**.(6 mks)**

(e) You intend to carry out a field study of a weather station in your school.

(i) Give two methods of recording data that you are likely to use. **(2 marks)**

(ii) State three reasons why the recording of data at a school weather station may be inaccurate. **(3 marks)**

8. (a) Name three types of faults: **(3 marks)**

(b) (i) With the aid of well labeled diagrams explain how compressional forces can lead to the formation of a rift valley. **(7 marks)**

(ii) Give two examples of Horst Mountains in east Africa: **(2 marks)**

(c) Describe two ways in which faulting may influence drainage systems. **(4 marks)**

(d) A part from the Rift Valley name two other relief features that were formed as result of faulting. **(3 marks)**

(e) Explain three ways in which features resulting from faulting are of economic importance: **(6 marks)**

9. (a)(i) What is a lake? **(2marks)**

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

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

(b) Describe how L. Victoria was formed. **(4marks)**

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

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

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

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

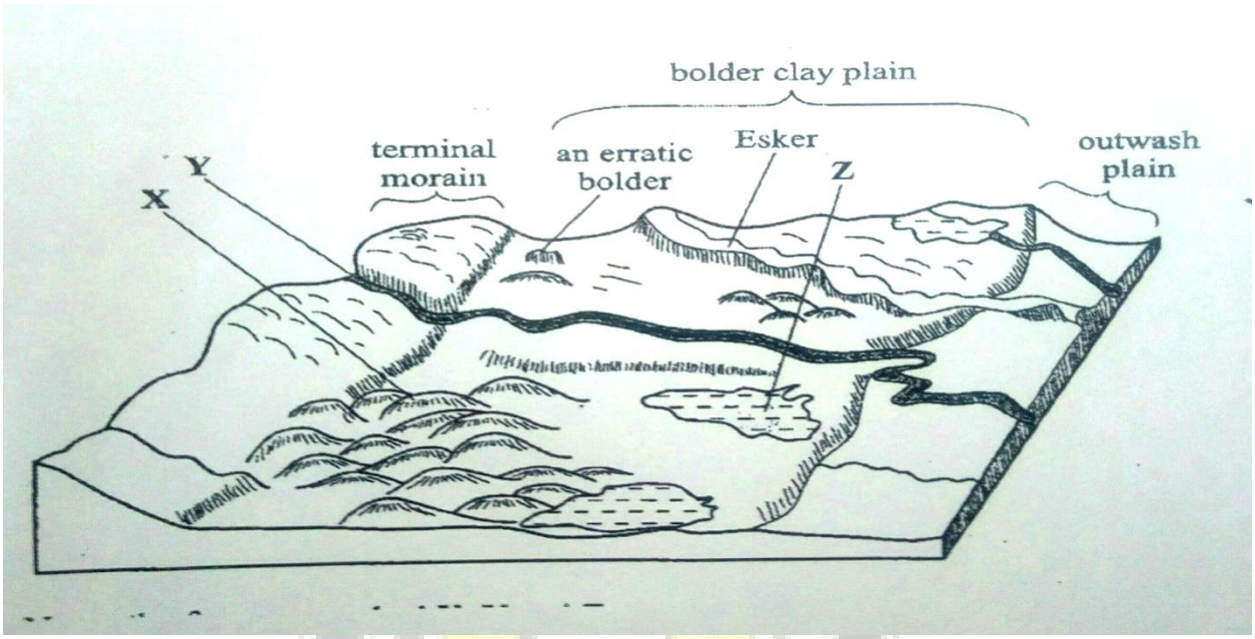
(ii) Identify two methods they will use to record the data collected. **2marks)**

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

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

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

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



(i) Name the features marked X, Y, and Z. **(3 marks)**

(ii) Describe how terminal moraine is formed. **(4 Marks)**

(d) Explain four positive effects of glaciation in low land area. **(8 marks)**

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KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 7

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- ***a)*** *This paper consists of **two** sections **A** and **B.***
- ***b)*** *Answer all the questions in section **A.***
- ***c)*** *Answer question **six** and any other **two** questions from section **B***
- ***d)*** *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

Answer all the questions in this section.

1. State five reasons for studying Geography. **(5marks)**

2. (a) Name biological factors influencing agriculture. **(2marks)**

(b) State three uses of sugar in Kenya. **(3marks)**

3. a) Name three main mining methods. **(3marks)**

b) Name two places where Gold is mined in Tanzania. **(2marks)**

4. a) Outline three characteristics of coniferous forests. **(3marks)**

b) Identify two fibre crops found in the tropical forests. **(2marks)**

5. (a) Name two tourist attractions found in Kenya Rift valley. **(2 marks)**

(b) State three factors that hinder domestic tourism in Kenya **(3 marks)**

SECTION B

Answer question 6 and any other questions from this section.

6. The table below shows the prices of sugar in Kenya Shillings per ton in some countries in Africa.

Use it to answer question a.(i)

YEAR	KENYA	SOUTH AFRICA	TANZANIA	ZAMBIA
2014	95,400	61,927	68,702	84,447
2015	111,713	67,462	66,985	93,798
2016	110,878	65,173	90,649	86,832

(a) (i) Draw a divided rectangle 16cm long to represent the prices of sugar in the year 2016. **(8 marks)**

(ii) State two advantages of using compound bar graph to present statistical data**.** **(2 marks)**

(b) State three physical conditions that favours cocoa farming in Ghana. **(3 marks)**

(c)Describe stages involved in processing of cocoa from harvesting to marketing**.** **(8 marks)**

(d)Apart from making oil give four other uses of oil palm. **(4 marks)**

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7. (a) (i) Distinguish between a forest and forestry. **(2 marks)**

(ii) Name two indigenous softwood trees species found in Western Region of Kenya. **(2marks)**

(b)(i) State three characteristics of planted forests. **(3 marks)**

(ii) Name two forest reserves in Western region of Kenya. **(2 marks)**

c) (i) State four characteristics of temperate hardwood forests. **(4 marks)**

(ii) Explain three problems which have limited exploitation of tropical hardwood in Africa **(6marks)**

d) Give the differences between exploitation of softwood forests in Kenya and Canada under the following sub-headings:

(i)Tree species **(2 marks)**

(ii)Mode of exploitation **(2 marks)**

(iii)Marketing of product **(2 marks)**

8. a) (i)Give three common methods through which land has been reclaimed in Kenya **(3 marks)**

ii) Give two methods that are used to drain swamps in Kenya. **(2 marks)**

b) (i)Name two rivers that supply water to the Mwea irrigation scheme **(2 marks)**

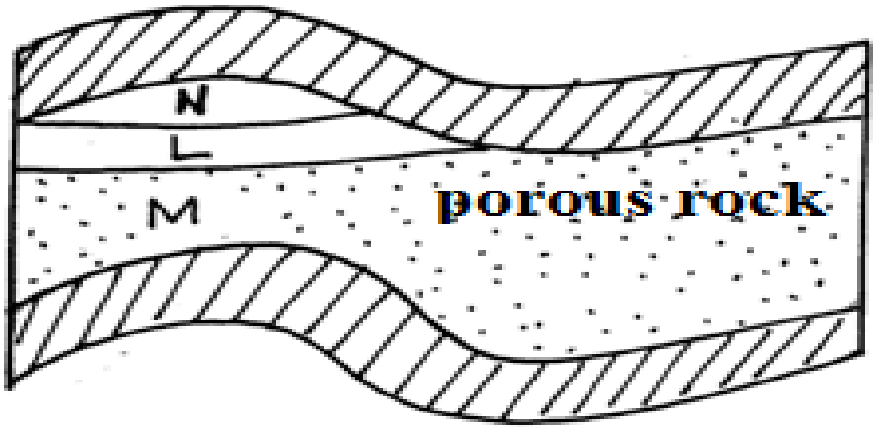
ii) Explain how the following factors influenced the establishment of Mwea irrigation scheme.

- Topography **(2 marks)**
- Soils **(2 marks)**
- Population **(2 marks)**
- Government policy **(2 marks**

c) i)Name three areas that make up the Zuider zee reclamation project in the Netherlands. **(3 marks)**

ii)Explain four differences between reclamation in Kenya and the Netherlands. **(8 marks)**

9. (a)The diagram below shows the occurrence of petroleum in the earth's crust. Use it to answer question a i)



a) (i)Name the substance in the areas labelled L,M and N **(3marks)**

(ii)Give three by –products obtained when crude oil is refined **(3marks)**

(b)State five effects of mining on the environment **(5marks)**

(c) (i)Describe the stages involved in the processing of trona from lake Magadi. **(6marks)**

(ii)Explain four ways in which Kenya has benefited from the mining of trona on lake Maga*di* **(8marks)**

10.a) i) Name two types of fish reared in fish farms in Kenya. **(2marks)**

ii) State four efforts taken by the Kenyan government to improve fish farming. **(4marks)**

iii) Differentiate pelagic fishing from demersal fishing. **(2marks)**

b) Describe purse seining method of fishing. **(5marks)**

c) Compare fishing in Kenya and Japan under the following headings:

i) Nature of landscape **(2marks)**

ii) Market **(2marks)**

iii) Climate **(2marks)**

e) Explain the following problems of fishing in Kenya and suggest one possible solution for each.

i) Pollution. **(3marks)**

ii) Growth of weeds. **(3marks)**

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KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 8

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- ***a)*** *This paper consists of **two** sections **A** and **B.***
- ***b)*** *Answer all the questions in section **A.***
- ***c)*** *Answer question **six** and any other **two** questions from section **B***
- ***d)*** *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

Answer all the questions in this section.

1. (a) State **three** effects of the rotation of the earth on its axis. **(3 marks)**

(b) Give **two** proofs that the earth is spherical. **(2 marks)**

2. (a) State **three** factors that influence how the wind blow. **(3 marks)**

(b) Identify **two** types of local winds. **(2 marks)**

3. (a) Identify **two** characteristics of minerals. **(2 marks)**

(b) Give **three** classifications of mechanically formed sedimentary rocks. **(3 marks)**

4. (a) Identify **two** scales used to measure earthquakes. **(2 marks)**

(b) State **three** effects of earthquakes. **(3 marks)**

5. (a) State **three** characteristics of Savanna vegetation. **(3 marks)**

(b) Give **two** uses of Savanna vegetation to man. **(2 marks)**

SECTION B

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

6. Study the map of **NYERI 1:50,000** (sheet 120/4) provided to answer the following questions.

(a) (i) Convert the linear scale of the map to a Representative Fraction (RF) scale. **(1 mark)**

(ii) Identify **two** districts shown on the map. **(2 marks)**

(b) (i) Give the six figure grid reference of the road junction at Gunyumu Farm. **(2 marks)**

(ii) Measure the distance of all-weather road bound surface **D435** from grid reference 715549 to grid reference 654549 **(2 marks)**

(c) (i) Give the direction and bearing of the Ark Lodge in grid square 5661 from the trigonometrical station in grid square 5164. **(2 marks)**

(ii) Give the longitudinal position of the North Eastern corner of the area covered by the map. **(2 marks)**

(d) (i) Describe how relief has influenced transport in the area covered in the map. **(4 marks)**

(ii) Describe the factors that have influenced the distribution of settlement in the area covered by the map. **(6 marks)**

(e) Citing evidence from the map, describe **two** functions of Mweiga town. **(4 marks)**

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7. (a) (i) What is faulting? **(2 marks)**

(ii) Identify **four** types of faults. **(4 marks)**

(b) Using a well-labelled diagram, describe the formation of block mountains by tensional forces. **(8 marks)**

(c) Explain **four** positive effects of faulting to human environment. **(8 marks)**

(d) You are supposed to carry out a field study on faulting in the Rift-Valley field study.

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

(ii) Identify **two** follow up activities you are likely to carry out after the field study. **(2 marks)**

8. (a) (i) Identify **three** processes through which waves erode the coastline**.** **(3 marks)**

(ii) Apart from blowholes, list **three** features that are produced by wave erosion along the coast. **(3 marks)**

(b) With aid of well-labelled diagrams, describe how a blowhole is formed. **(8 marks)**

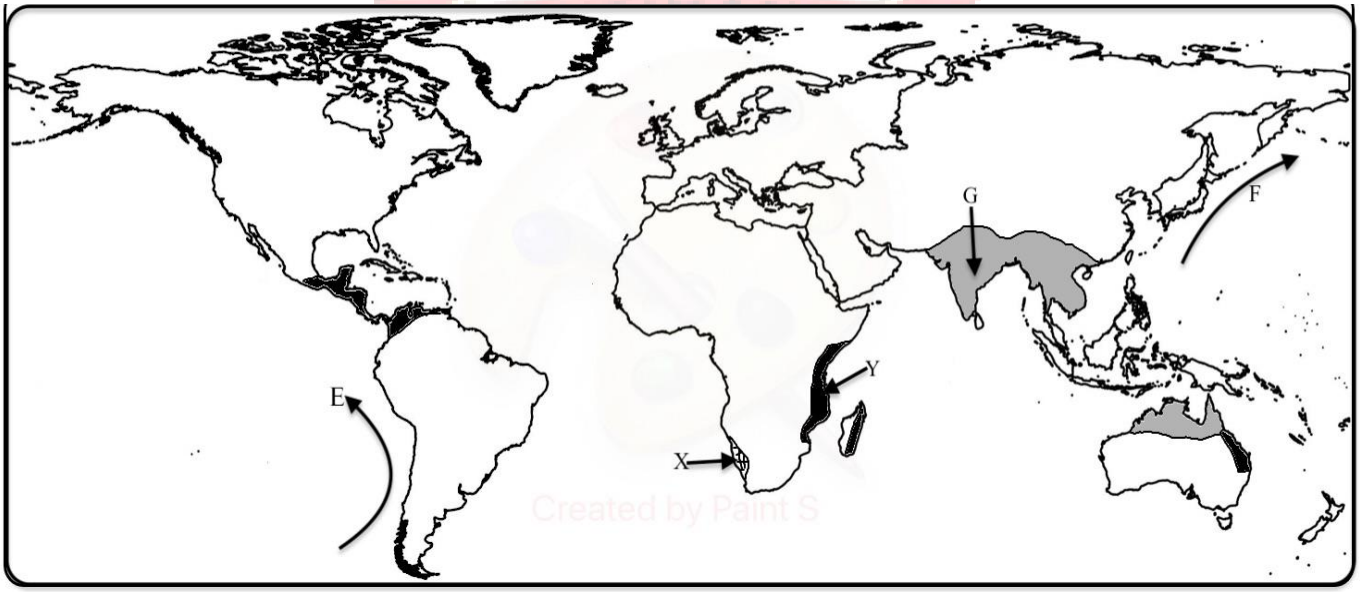
(c) Describe how a spit is formed. **(4 marks)**

(d) COHS students conducted a field study on coastal features along the Kenyan coast.

(i) List **three** features of coastal emergence they are likely to have studied. **(3 marks)**

(ii) State **four** ways in which features resulting from coastal emergence are of significance to Kenya. **(4 marks)**

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



(a) (i) Identify the climate marked **X** and **Y**. **(2 marks)**

(ii) Name the ocean currents marked **E** and **F**. **(2 marks)**

(b) Describe the characteristics of the climate marked **G**. **(8 marks)**

(c) Explain how the following factors influence climate:

(i) Latitude; **(2 marks)**

(ii) Aspect; **(2 marks)**

(iii) Configuration of the coastline. **(2 marks)**

(d) (i) State **three** factors that influences atmospheric pressure. **(3 marks)**

(ii) Describe how relief rainfall is formed. **(4 marks)**

10. (a) State four factors that determine the amount of surface run-off. **(4 marks)**

(b) Describe three ways in which a river transport its load. **(6 marks)**

(c) Using diagrams, describe the following drainage patterns:

(i) Dendritic; **(2 marks)**

(ii) Trellis; **(2 marks)**

(iii) Centripetal. **(2 marks)**

(d) (i) What is a delta? **(2 marks)**

(ii) State three ideal conditions under which a delta may be formed. **(3 marks)**

(iii) State four factors that lead to river deposition. **(4 marks)**

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KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 8

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

Answer all the questions in this section.

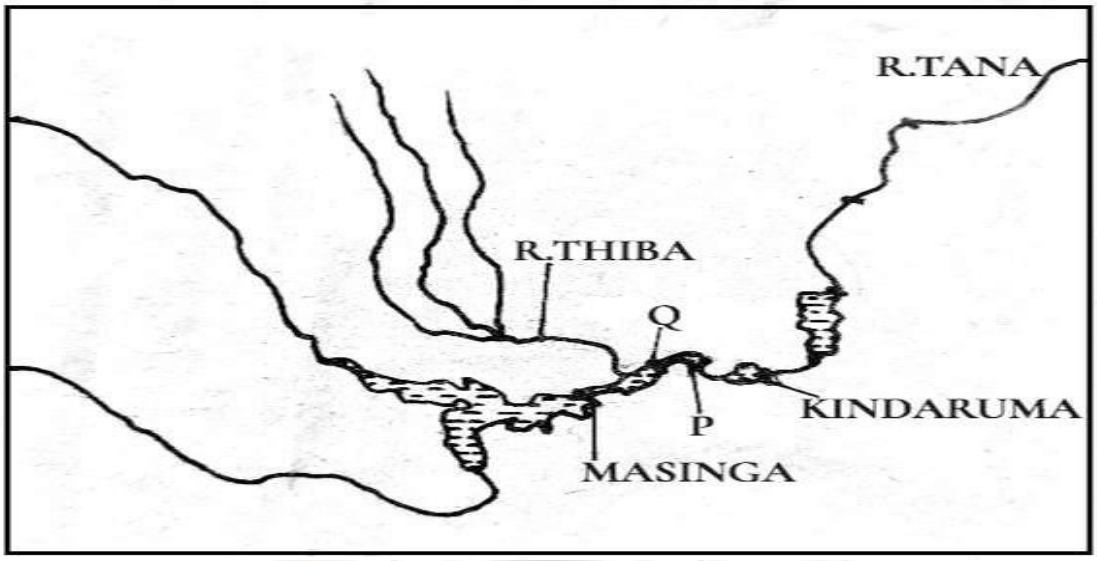
1. (a) Name **two** counties where floriculture is practiced in Kenya. **(2 marks)**

(b) State three characteristics of horticultural farming in Kenya. **(3 marks)**

2. (a) Name **two** agricultural food processing industries in Kenya. **(2 marks)**

(b) State **three** problems facing Jua – Kali industries in Kenya. **(3 marks)**

3. (a) The sketch map below shows Hydroelectric Power(H.E.P) along the River Tana. Use it to answer question (a)



Name the Hydroelectric power (H.E.P) stations marked **P** and **Q**. **(2 marks)**

(b) State **three** reasons that limit the use of nuclear energy in Kenya. **(3 marks)**

4. (a) Give **two** effects of the liberalization of the oil industry in Kenya**.** **(2 marks)**

(b) State **three** problems that have hindered the decentralization of industries in Kenya. **(3 marks)**

5. (a) Apart from pastoral farming, name **two** other types of commercial livestock farming practiced in Kenya. **(2 marks)**

(b) State **three** factors that favour pastoral farming in Kenya. **(3 marks)**

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SECTION B

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

6. Use the data provided to answer the questions that follow.

Kenya: Value by Foreign Trade between 1999 – 2007 in million Ksh.

YEAR	1999	2000	2001	2002	2003	2004	2005	2006	2007
EXPORTS	985	1.230	1,170	1,080	1,020	1,310	1,450	1,590	1,860
IMPORTS	2,270	2,910	3,195	4,029	4,131	4,247	4,585	4,422	4,516

(a) (i) Draw comparative line graphs to represent the data given.Use a scale of 1 cm to represent 500 million Ksh.on the vertical axis. **(7 marks)**

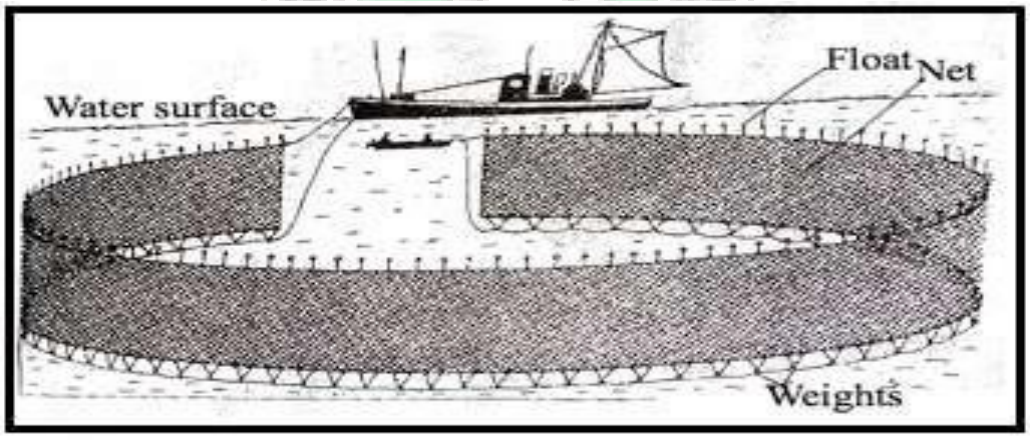
(ii) Describe the trend of value of exports from 1999 to 2007. **(3 marks)**

(iii) Describe the factors which may have led to the increased export earning from 2004. **(6 marks)**

(b) Explain why Kenya experiences unfavorable balance of trade. **6 marks)**

(c) State **three** ways in which the Kenyan Government is promoting export trade. **(3 marks)**

7. The diagram below represents a fishing method. Use it to answer question (a) below.



(a) (i) Identify the method of fishing shown below. **(1 mark)**

(ii) Describe how the above method is used in fishing. **(5 marks)**

(iii) Give **three** examples of fish species caught by the above method. **(3 marks)**

(b) Explain **four** factors that favour the fishing industry in Japan. **(8 marks)**

(c) Explain **four** reasons why East Africa does not export large quantities of fish. **(8 marks)**

8. (a) Identify **three** kinds of roads used in Africa. **(3 marks)**

(b) Name **four** major high ways in Africa. **(4 marks)**

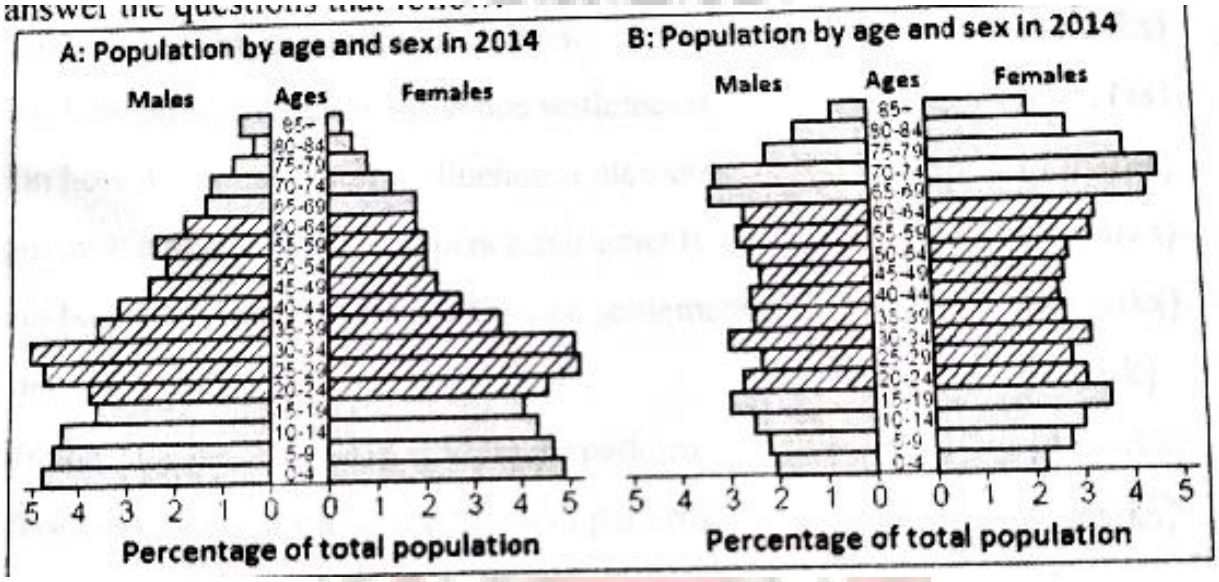
(c) (i) Name **four** major world sea routes. **(4 marks)**

(ii)Explain **two** factors that make the major sea and ocean routes to be concentrate in the Northern Hemisphere. **(4 marks)**

(d) (i) Give **two** forms of written communication. **(2 marks)**

(ii) Explain **four** human problems facing transport in Africa. **(8 marks)**

9. The diagrams below shows the population structures of two countries A and B. Study it and answer the questions that follow.



(a) Identify the type of graph above**.** **(1 mark)**

(b) (i) Which one belongs to Kenya**.** **(1 mark)**

(ii) Which one belongs to Sweden. **(1 mark)**

(c) Describe five characteristics of population structure for country A. **(5 marks)**

(d) (i) List two types of internal migration**.** **(2 marks)**

(ii) Give three ways in which government policy causes migration. **(3 marks)**

(e) State any four problems resulting from high population growth rate**.** **(4 marks)**

(f) Explain four factors that have contributed to high population growth in Kenya. **(8 marks)**

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10. (a) Identify **two** irrigation schemes in Kenya other than Mwea Tebere. **(2 marks)**

(b) Differentiate between land rehabilitation and land reclamation. **(2 marks)**

(c) Explain **three** factors that have led to the success of Mwea Tebere Irrigation Scheme. **(6 marks)**

(d) State **four** significance of irrigation farming in Kenya. **(4 marks)**

(e) Explain **two** methods that are used to rehabilitate land. **(4 marks)**

(f) Explain the steps followed in reclaiming land in Netherlands. **(7 marks)**

THE KENYA NATIONAL EXAMINATIONS COUNCIL
MITIHANI

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 9

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. a) Explain the origin of the earth and the solar system according to the Nebula cloud theory. **(4mks)**

b) Name **two** other theories that explain the origin of the earth and the solar system apart from the Nebula cloud theory. **(2mks)**

2. a) List **two** zones of transition in the atmosphere. **(2mks)**

b) Give **three** evidences that the interior of the earth is hotter. **(3mks)**

3. a) Define the following terms.

i) River divide **(1mk)**

ii) A confluence **(1mk)**

iii) A river profile **(1mk)**

b) List **three** factors that influence the formation of a river. **(3mks)**

4. How is an oasis formed? **(4mks)**

5. List **four** characteristics of Mediterranean climate. **(4mks)**

SECTION B

Answer questions six and any other two questions.

a) Study the map of **Nyeri (1:50,000) sheet 120/4** provided and answer the questions that follows)

Give the latitudinal and the longitudinal position of the south west corner of the map extract **(2mks)**

ii.) Calculate the magnetic declination of the map extract **(2mks)**

b. i) Which adjoining sheet is to the S.E of the area covered by the map**?** **(1mk)**

ii.) What is the general flow of river Chanya **(2mks)**

iii.) Give three social function of Nyeri town **(3mks)**

c.) Calculate the area of Nyeri Forest to the East of Easting 69 and North of Northing 56. (Give your answer in Kilometre squared($Km^{2)}$ **(2mks)**

d.) Citing evidence from the map. Give

i.)Two reasons why the area is covered by the map is suitable for coffee growing **(4mks)**

ii.) Two factor that favor saw milling in the area covered by the map **(4mks)**

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

7. a) i) What is faulting? **(1mk)**

ii) With the use of a well labelled diagram explain how a reverse fault occurs. **(5mks)**

iii)State **two** other types of faults apart from reverse faults. **(2mks)**

b) Describe how a rift valley forms through tensional forces. **(4mks)**

c) Explain **three** ways in which features resulting from faulting are of economic importance to man. **(6mks)**

d) You intend to carry out a field study of the landforms around your school.

i) State **two** hypotheses you are likely to formulate for the study. **(2mks)**

ii) Apart from dividing your class into groups, in what three other ways will you prepare for the study. **(3mks)**

ii) In what **two** ways is dividing the class into groups important? **(2mks)**

8. a) i) Differentiate between intrazonal and azonal soils. **(2mks)**

ii) Give **three** examples of a zonal soils **(3mks)**

b) i) Explain **four** factors that influence soil formation. **(8mks)**

ii) Give **two** factors that determine the colour of soil **(2mks)**

c) i) What is soil erosion. **(2mks)**

ii) Explain **four** ways in which vegetation prevents soil erosion. **(8mks)**

9 a) i) Name a country in Africa where temperate grassland is found. **(1mk)**

ii) State **four** characteristics of temperate grasslands. **(4mks)**

b) i) Explain **four** ways trees in the coniferous forests have adapted to the environmental conditions of the region. **(8mks)**

c) You are required to carry a field study on a forest near your school. Describe the methods you would use to determine each of the following aspects of the trees in the forest.

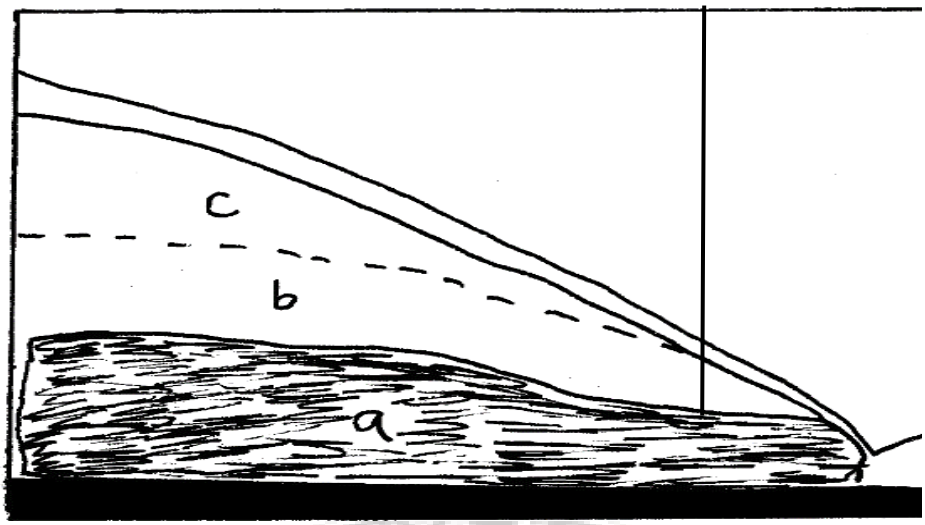
i) Age of the trees. **(3mks)**

ii) Height of the trees. **(3mks)**

iii) Tree species **(3mks)**

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10. The figure below shows underground zones of saturation. Use it to answer question a (i)



a) i) Identify the zones marked a, b, and c. **(3mks)**

ii)Name **four** sources of groundwater. **(4mks)**

b) Explain **four** ways in which groundwater is of significance to human activities. **(8mks)**

c)i) Give **two** examples of lakes in East Africa that have formed due to crustal warping. **(2mks)**

ii) Describe how the process of crustal warping leads to formation of lakes. **(5mks)**

iii) State **three** other processes that lead to formation of lakes apart from crustal warping.**(3mks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 9

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. a) Define the term mining. **(2 marks)**

2. b) State **three** forms in which minerals occur. **(3 marks)**

3. a) Distinguish between forest and forestry. **(2 marks)**

b) Show **three** factors that influence the distribution of forests. **(3 marks)**

4. a) What is horticulture? **(2 marks**

b) Give **three** economic factors that influence agricultural activities. **(3 marks)**

5. a) Name two places where limestone are found in Kenya. **(2 marks)**

b) List **three** uses of soda ash. **(3 marks)**

6. a) What is a dead ground? **(2 marks)**

b) Mention **three** uses of a photograph. **(3 marks)**

SECTION B (75 marks)

Answer question 6 and any other two questions

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



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

(ii) Describe the characteristics of the forest shown on the photograph. **(4 marks)**

(iii)Draw a rectangle measuring 15 cm by 10 cm. On it, sketch and label **five** main features shown on the photograph. **(5 marks)**

(a) (i) Name **two** indigenous softwood tree species in Kenya. **(2 marks)**

(ii) Explain **three** problems facing forestry in Kenya. **(6 marks)**

(iii)State **three** factors favoring the development of softwood forests in Canada. **(3 marks)**

(c) Give **four** differences between softwood forests in Kenya and Canada. **(4 marks)**

7. Study the table below and answer the questions that follow

Oil consumption in Kenya in the year 2010	
Economic sector	**Percentage of oil consumed**
Agriculture	4
Aviation	21
Commercial and Industry	22
Power	7
Rail	6
Road	30
Shipping	6
Others	4
Total	**100**

a) i) Draw a simple pie chart to represent the information above. **(6 marks)**

ii) What is the percentage of oil used in transport in the year 2010? **(2 marks)**

b) iii) Mention **two** demerits of using the method above to represent data. **(2 marks)**

c) i) List **three** countries where oil is produced in the Middle East. **(3 marks)**

ii) Explain **three** contributions of oil in the economy of the countries in the Middle East **(6 marks)**

d) Describe how petroleum oil is formed. **(6 marks)**

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8 a) Name **two** wheat growing counties in Kenya **(2 marks)**

b) State **five** conditions favoring wheat farming in Kenya. **(5 marks)**

c) Describe wheat farming from planting to harvesting stage. **(8 marks)**

d) Give **two** selling points of wheat in Kenya. **(2 marks)**

e) Compare wheat farming in Kenya and Canada. **(8 marks)**

9. a) Discuss nomadic pastoralism in Kenya under the following sub-headings

i) The cattle breeds kept **(2 marks**

ii) The pattern of movement **(2 marks**

iii) Marketing of the animals **(3marks**

b) i) Give **three** reasons why nomadic pastoralists keep large heads of animals. **(3 marks)**

ii) Explain **four** measures taken by the government of Kenya to improve beef cattle farming. **(8 marks)**

c) Give **four** challenges facing nomadic pastoralism in Kenya **(4 marks)**

d) Name **three** indigenous breeds of dairy cattle reared in Kenya. **(3 marks)**

10.) a.) i.) Differentiate between land reclamation and land rehabilitation **(2 marks)**

ii) Identify three methods of land reclamation in Kenya **(3 marks)**

b) i.) State four physical factors that influenced the location of Mwea Tabere irrigation scheme **(4marks)**

ii.) Explain four problems facing Mwea Tabere irrigation scheme **(8 marks)**

c) i.) Outline the stages that were involved in the reclamation of land from the sea in Netherlands **(5marks)**

ii.) State three benefits of the of irrigation farming in Kenya **(3 marks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 10

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

NAME……

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Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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SECTION A

Answer all the questions in this section.

1. (a) What is a weather station? **(2 marks)**

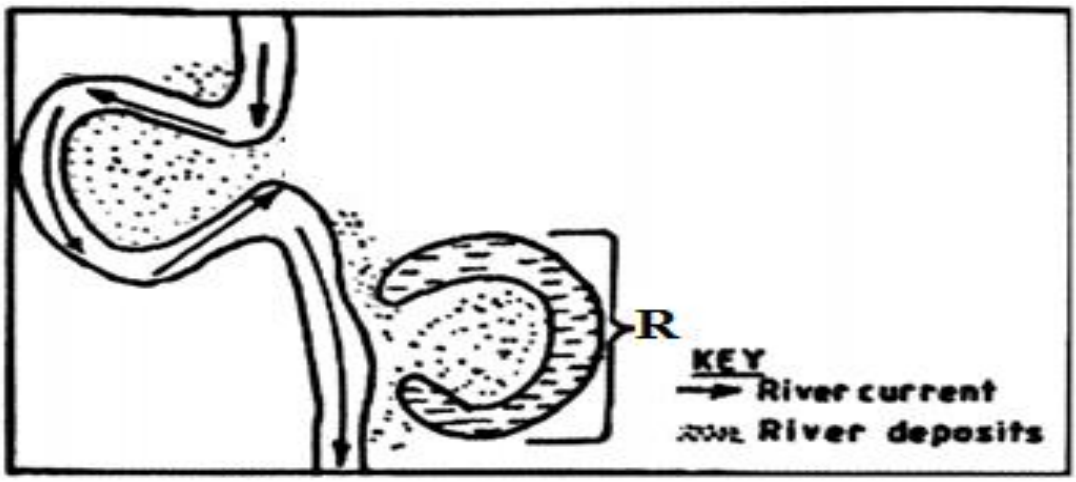
(b) Give **three** factors that influence wind direction. **(3 marks)**

2. (a) Name **two** types of tectonic plate boundaries. **(2 marks)**

(b) Give **three** effects of the movement of tectonic plates. **(3 marks)**

3. State **four** causes of the decline of the areas under forests in Kenya. **(4 marks)**

4. The diagram below shows a section of a river. Use it to answer the questions that follow.



(a) Identify the stage of development of the section of the river. **(1 mark)**

(b) A part from feature marked **R**, give **two** other features formed at this stage**.** **(2 marks)**

(c) State **three** conditions necessary for the formation of the feature marked **R**. **(3 marks)**

5. (a) Differentiate between an aquifer and a water table. **(2 marks)**

(b) Give **three** problems associated with artesian wells. **(3 marks)**

SECTION B

Answer question 6 and any other two questions from this section

6. Study the map of Nyeri 1:50,000 (sheet 120/4) provided and answer the following questions.

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

(ii) Give the six figure grid reference of the trigonometric station at Nyeri Hill forest.**(2 marks)**

(iii) Calculate the area of Nyeri forest. Give your answer in square kilometres. **(2 marks)**

(b) (i) What is the bearing of The Ark Lodge from the trigonometric station **120 UT 16. (2 marks)**

(ii) Identify **three** man-made features in grid square **7263.** **(3 marks)**

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

(c) Describe the relief of the area covered by the map. **(5 marks)**

(d) Citing evidence from the map, identify **three** social services offered in Nyeri Township. **(6 marks)**

7. (a) (i) What is a mineral? **(2 marks)**

(ii) Describe the following characteristics of minerals:

- Lustre **(2 marks)**
- Colour **(2 marks)**
- Cleavage **(2 marks)**

(b) Describe **three** ways in which igneous rocks are formed. **(9 marks)**

(c) Explain **four** significance of rocks to the economy of Kenya. **(8 marks)**

8. (a) (i) State **three** causes of faulting. **(3 marks)**

(ii) Differentiate between a normal fault and a reverse fault. **(4 marks)**

(b) (i) A part from rift valley, give **three** other relief features formed due to **faulting. (3 marks)**

(ii) With the aid of diagrams, describe how compressional forces can lead to formation of a rift valley. **(8 marks)**

(c) Students from your class are planning to carry out a field study on an area affected by faulting.

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

(ii) Give **three** reasons why it would be inappropriate to use observation to collect data during the field study. **(3 marks)**

9. (a) (i) What are ocean tides? **(2 marks)**

(ii) Name **two** ocean currents along the western coast of Africa. **(2 marks)**

(b) State **three** factors that determine the rate of coastal erosion. **(3 marks)**

(c) With the aid of labeled diagrams, describe the formation of the following coastal features:

(i) Fringing reef **(5 marks)**

(ii) Spit **(5 marks)**

(**d)** Explain the significance of oceans to human activities. **(8 marks)**

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10. (a) Name three components of soil. **(3 marks)**

(b) Explain how the following factors influence the formation of soil:

(i) Climate **(4 marks)**

(ii) Topography **(4 marks)**

(c) Describe how laterization occurs. **(6 marks)**

(d) Explain four ways in which human activities contribute to soil erosion. **(8 marks)**

KCSE 2023 REPLICA EXAMS

PREDICTION TRIAL 10

312/2

GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of **two** sections **A** and **B.***
b) *Answer all the questions in section **A.***
c) *Answer question **six** and any other **two** questions from section **B***
d) *All answers must be written in the answer booklet provided*

FOR EXAMINERS USE ONLY

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A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

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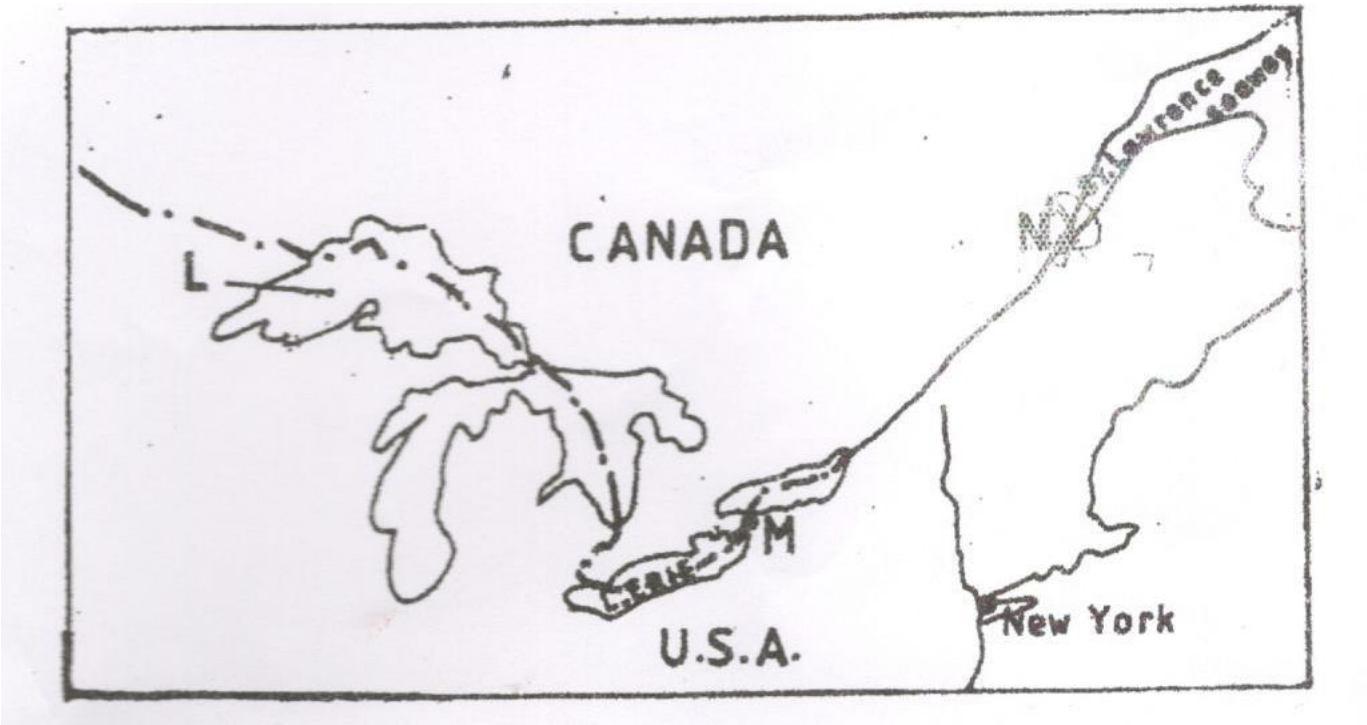
SECTION A

Answer all the questions in this section.

1. a) Give three reasons why we study Geography. **(3marks)**

b) Explain the relationship between Geography and Economics **(2marks)**

2. a) Study the map of the Great Lakes and the St. Lawrence seaway



i) Name the ports marked X, Y **(2marks)**

ii) Name the canal marked Z **(1mark)**

iii) State two problems experienced along the Great Lakes and St. Lawrence River before construction of the sea way. **(2marks)**

3. a) Name two exotic breeds of dairy cows reared in Kenya. **(2 marks)**

b) State three physical factors that have favoured dairy farming in the Kenya Highlands.**(3marks)**

4. a) State three causes of flooding in Kenya. **(3marks)**

b) Give two effects of drought. **(2marks)**

5. Describe drifting as a method of fishing. **(5 marks)**

SECTION B

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

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



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

(ii)Draw a rectangle measuring 15cm by 10cm. On it sketch and label **five** features shown on the photograph. **(5 marks)**

(b) Apart from transporting bulky goods, state **three** advantages of transporting goods by railway. **(3 marks)**

(c)(i)Explain **three** reasons why there is limited use of river transport in Africa. **(6marks)**

(ii)State the efforts being taken by the government to improve road transport in Kenya. **(4marks)**

(d) Explain the role of transport in economic development of Africa. (**6marks)**

7. (a)(i) State **three** physical conditions that favour cocoa farming in Ghana. **(3marks)**

(ii)Describe the stages involved in the processing of cocoa from harvesting to marketing. **(7marks)**

(b) State **four** characteristics of shifting cultivation. **(4marks)**

(c)(i) Explain problems facing maize farmers in Kenya. **(8marks)**

(ii) State **three** measures being taken by the government to promote Maize farming in Kenya. **(3marks)**

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8. a)i) What is Wildlife? **(2marks)**

ii) Differentiate a National Park from a Game Reserve **(2marks)**

iii) State four reasons for establishment of National Parks in Kenya. **(4marks)**

b) i) Explain three problems facing the Kenya Government in the effort to conserve Wildlife. **(6marks)**

ii) Give three economic benefits of Tourism to Kenya. **(3marks)**

c) Explain four factors that make Switzerland receive more tourists than Kenya**.** **(8marks)**

9.(a) (i) What is energy conservation? **(2 marks)**

(ii) Identify **three** non-renewable sources of energy. **(3 marks)**

(iii) State **three** advantages of Hydroelectric Power as a source of energy. **(3 marks)**

(b) (i) What are the causes of energy crisis. **(4 marks)**

(ii) Explain **four** measures being taken by the government to conserve energy. **(8 marks)**

(c) Students from your school carried out a field study at Olkaria Geothermal Power Generation station.

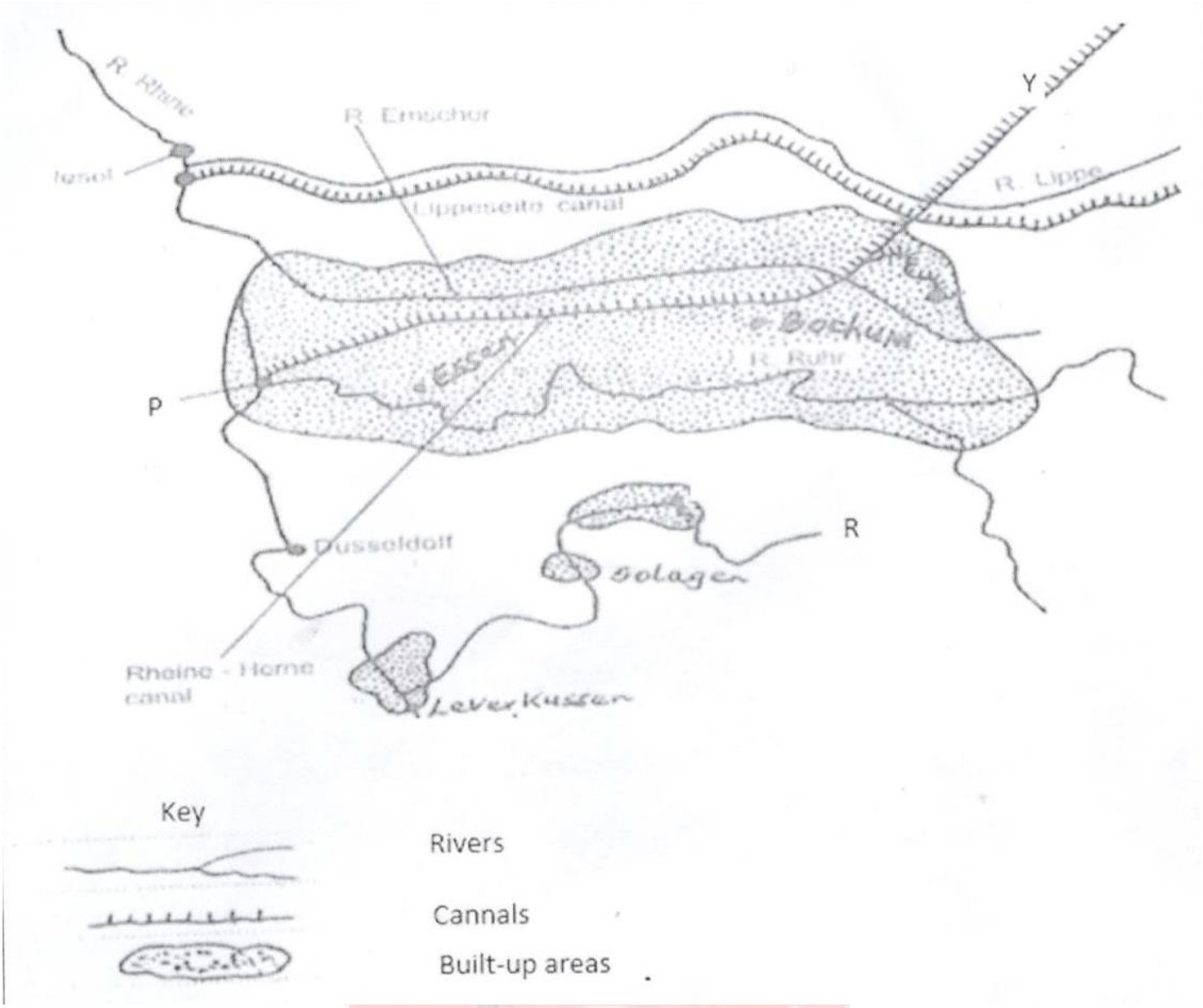
(i) What preparations did they take before going out for the field study? **(3 marks)**

(ii) State the follow up activities that they undertook. **(2 marks)**

10.a) i) Name three agricultural non-food manufacturing industries in Kenya. **(3marks)**

ii) State four reasons for establishing industries in Kenya. **(4 marks)**

b) Study the outline map below and answer the questions that follow.



i) Name the canal marked Y **(1 mark)**

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

iii) Name the pot marked P **(1mark)**

c) Give four measures taken by the County Government to promote Jua Kali Industries in Kenya. **(4 marks)**

d) i) State three reasons why paper milling industries are located near water sources. **(3 marks)**

ii) Explain four factors that have favoured car manufacturing in Japan. **(8marks)**

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