KCSE 2023 CROSS-COUNTRY MOCKS

GEOGRAPHY

(MOCKS TRIALS 1-10)

Compilation of 10 Annual Joint Geography Mock Trials amongst our KCSE 2023 Candidates within the clustered pool of Selected Top Performing National Schools in the whole Republic of Kenya.

INCLUSIVE OF BOTH PAPER 1 & 2 EXAMS.

SERIES 1

For Marking Schemes

Mr Isaboke 0746-222-000 / 0742-999-000

MWALIMU CONSULTANCY

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 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) Write your name, admission number and class in the spaces provided above.
*(b) This paper has **two** sections: **A** and **B***
*(c) Answer **all** the questions in section **A***
*(d) Answer **question 6** and any other **two** questions from section **B***
*(e) All answers must be written in the answer sheets provided.*

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAX SCORE	SCORE
A	1 – 5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A
Answer ALL 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.
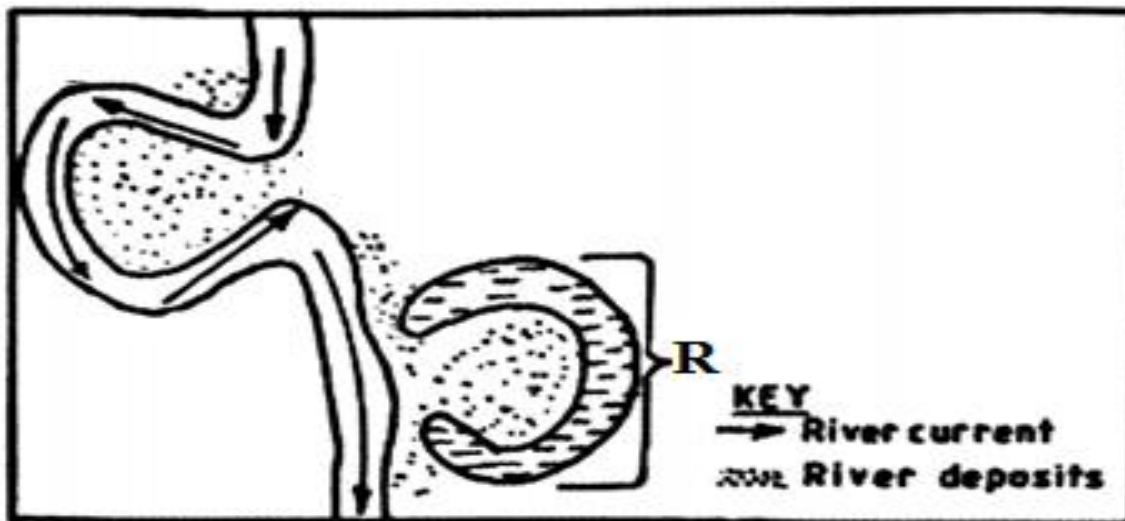
(a) Identify the stage of development of the section of the river. **(1 mark)**

(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 **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. **(2marks)**

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

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

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

c. Citing evidence from the map give three economic activities apart from crop growing carried out in the area covered by the map.   **(4marks)**

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

i. State four findings they are likely to come up with.   **(4marks)**

ii. State three advantages of studying rivers through fieldwork.   **(3marks)**

iii. What problems were the students likely to face during their field study?   **(3marks)**

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)**

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 CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 1

312/2

GEOGRAPHY

PAPER 2
TIME: 2¾ HOURS

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B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

Answer All Questions in This Section

1.a) Name three tourist attractions found in the Rift Valley of Kenya. **(3marks)**

  b. Give any two measures the Kenyan government has taken to attract more tourists. **(2marks)**

2. a) Define the term agroforestry. **(2 marks)**

b) State three reasons why agroforestry is being encouraged in Kenya. **(3 marks)**

3. a) State two characteristics of market gardening. **(2 marks)**

b) Give two reasons why horticulture is more developed in Netherlands than in Kenya. **(2 marks)**

c) Cite two advantages of growing horticultural crops in green houses. **(2 marks)**

4. a) What is energy crisis? **(2 marks)**

b) State any three effects of energy crisis in Kenya in the recent past. **(3 marks)**

5. a) State two reasons why some industries are located near the sources of raw materials.**(2 marks)**

b) State two reasons why the new county government system should encourage the Jua Kali industries in their regions. **(2 marks)**

SECTION B

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. **(8mks)**

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

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

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

c) State **four** benefits of wheat growing in Kenya. **(4mks)**

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

7.(a) (i) Name **three** types of minerals.   **(3 marks)**

(ii) State **three** ways in which minerals occur.   **(3 marks)**

(b) (i) Describe shaft mining method.   **(5 marks)**

(ii) Outline **three** challenges faced by shaft miners.   **(3 marks)**

(c) Explain **four** problems facing the mining industry in Kenya.   **(8 marks)**

(d) Highlight **three** ways in which mining derelicts can be reclaimed.   **(3 marks)**

8. .(a) Name **four** major fishing grounds in the Atlantic and Pacific oceans.   **(4mks)**

(b) State **five** main factors favouring these fishing grounds.   **(5mks)**

(c) Name **three** types of fishing and **for each** one, state **one** method of fishing used.   **(6mks)**

(d) (i) Give **four** reasons why the marine fishing industry in East Africa is not well developed.

    (4mks)

(ii) State **six** ways in which the fishing industry is of significance in Kenya.   **(6mks)**

9. (a) Apart from Mwea, name **five** large irrigation schemes in Kenya.   **(5mks)**

(b) Explain **four** conditions that made Mwea a suitable location for irrigation scheme. **(8mks)**

(c) Explain **three** benefits to farmers in the Pekerra irrigation scheme.   **(6mks)**

(d) Explain **three** problems experienced by farmers in the Perkera irrigation scheme.   **(6mks)**

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

(b) State **four** factors that favour dairy farming in Denmark   **(4mks)**

(c) State **five** problems faced by dairy farmers in Kenya.   **(5mks)**

(d) Explain **six** factors that favour beef farming in Argentina.   **(6mks)**

(e) Explain **four** ways in which the government of Kenya could assist nomadic pastoralists to

improve the quality of their livestock.   **(8mks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 2

312/1

GEOGRAPHY

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		25	
TOTAL SCORE			

SECTION A
Answer All Questions in This Section

1. a) List down **two** isothermal layers of the atmosphere.   **(2mks)**

b) State any **three** characteristics of the lowest layer of the atmosphere.   **(3mks)**

2. a) Differentiate between faulting and folding.   **(2mks)**

b) Apart from Fold Mountains, name three other land forms resulting from folding.   **(3mks)**

3. a) What is mass wasting**.**   **(2mks)**

b) State**three** economic benefits of the weathering process.   **(3mks)**

4. a) What is soil degeneration**?**   **(2mks)**

b) Identify t**hre**e types of soil degeneration**.**   **(3mks)**

5. a) Name the type of delta found at the mouth of: **[2mks]**

i.   RiverNile
ii. River Omo

b) State **one** effect for each of the following types of river erosion**. (3mks)**

i.   Head ward erosion
ii. Lateral erosion
iii. Vertical erosion

SECTION B

Answer Question 6 And Any Two Questions From 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) Define the term Vulcanicity**.** **(2mks)**

b) Distinguish between Extrusive and Intrusive Vulcanicity**.** **(4mks)**

c) Give any three resultant features due to intrusive Vulcanicity. **(3mks)**

d) Describe the continental Drift theory**.** **(3mks)**

e) i. State two artificial causes of earth movement**.** **(2mks)**

ii. Explain any three significance of Vulcanicity to human activities**.** **(8mks)**

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

b) Explain how the following factors influences climate **[9mks]**

  i.   Latitude
 ii.   Altitude
iii.   Ocean currents
iv.   State four conditions that are necessary for the formation of **fog** **[4mks]**

c) i. Distinguish between aridity and desertification[2mks]

ii. State any four causes of aridity and desertification together with their possible solutions**. (8mks)**

9. a) Name two ways ofwater movement in oceans**.** **(2mks)**

b) List any four types of tides. **(4mks)**

c) State four factors that influence wave transportation**.** **(4mks)**

d) Form 4 geography class carried out afield study at a wave deposition site at the Coast of Mombasa.

 i.   List any four wave depositional features that might have been observed**.** **(4mks)**

ii.   Explain any two factors influencing the type of Coast that they might have studied**.** **(4mks)**

iii.   Give any three benefits they might have enjoyed due to conducting reconnaissance to their placeof study**.** **(3mks)**

iv.   List two ways the learners might have used in collecting data. **(2mks)**

v.   Mention any two types of coral reef they might have studied during the period of their study.

(2mks)

10. a) Name three major desert found in Africa. **[3mks]**

i.   Give two processes in which wind erodes the earth's surface. **(2mks)**

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

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

i.   Yardangs **(5mks)**

ii. Mushroom block. **(6mks)**

   c) The diagram below represents features resulting from wind deposition in adesert.Use it to answer

   questions below;
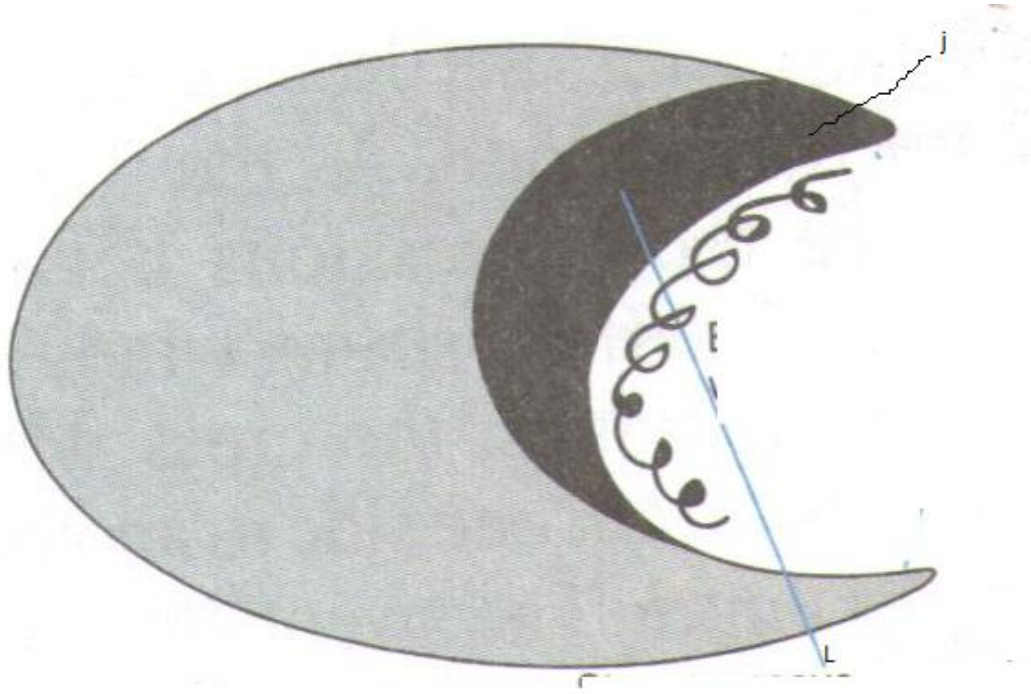
i.   Name the above feature. **(1mk)**

ii. Name the parts marked J and **L** **(2mks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 2

312/2

GEOGRAPHY

PAPER 2
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		25	
		25	
TOTAL SCORE			

SECTION A.

Answer all the questions in this section

1. **(a)** What is management of forests? **(2 marks)**

   (b) State three reasons why agroforestry is encouraged in Kenya. **(3 marks)**

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

(b) State **three** similarities between the cottage industry of India and the Jua Kali industry in

   Kenya. **(3 marks)**

3. (a) Differentiate between settlement and urbanization. **(2 marks)**

   (b) State **four** characteristics of central business district of a town. **(4 marks)**

4. (a) Name **two** types of environment. **(2 marks)**

   (b) State **three** consequences of water pollution. **(3 marks)**

5. The map below shows the Great Lakes and St. Lawrence Seaway. Use it to

   answer question (a) and (b).
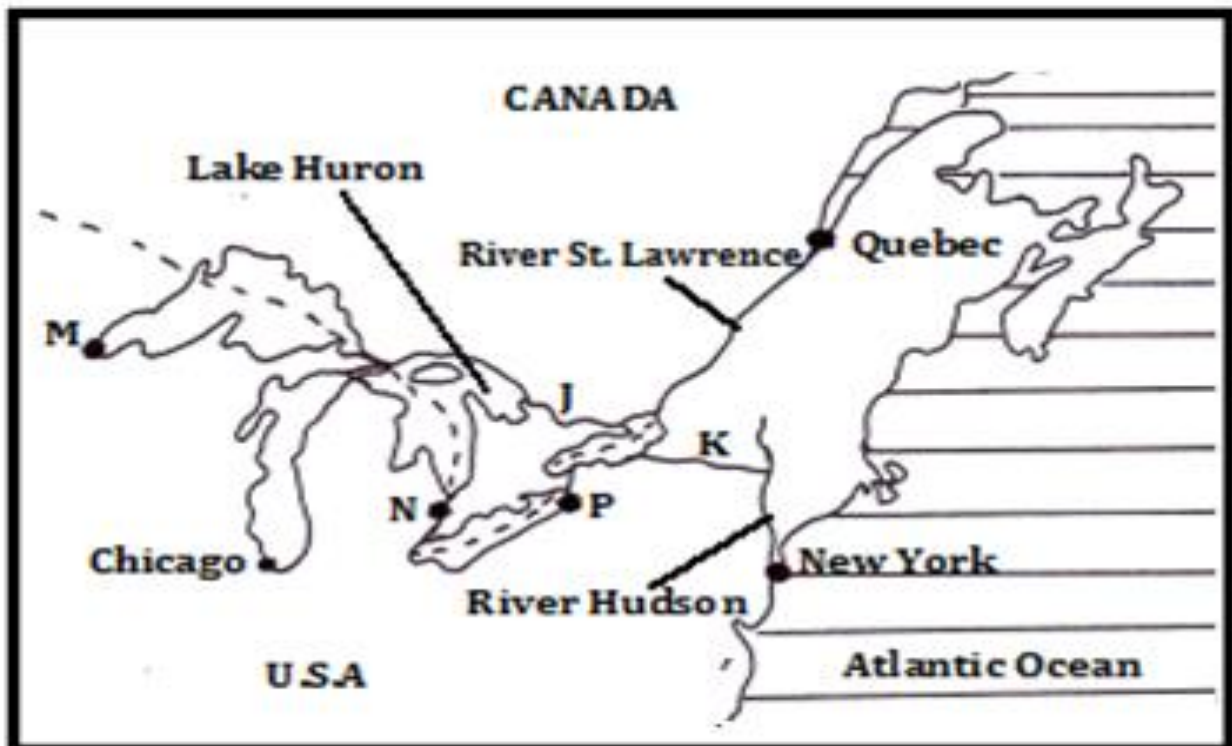
(a) Name the canals marked **J** and **K**. **(2 rks)**

   (b) Name the towns marked **M** and **N**. **(2 mks)**

SECTION B

6. Study the table below and use it to answer questions (a) and (b)

Value of leading imports to Kenya from 2015 to 2019 (Ksh million)

MPORT	2016	2017	2018	2019
Industrial machinery	253,500	238,400	252,400	257,600
Petroleum products	183,800	234,900	295,100	307,500
Iron and Steel	75,500	83,600	97,700	104,100

(a) (i) What is the difference between the value of petroleum products imports between year 2018 and year 2016? **(2 marks)**

   (ii) Calculate the percentage increase between the value of industrial machinery imported between year 2017 and the year 2019. **(2 marks)**

(b) (i) Apart from comparative bar graphs, give **three** other statistical methods that can be used to present the data in the table. **(3 marks)**

   (ii)Using a vertical scale of 1cm to represent Ksh 30 Billion, draw a comparative bar graph to present the data in the table. Use the graph paper provided. **(9 marks)**

(c) State **three** advantages of using comparative bar graphs to present statistical data.

(3 marks)

(d) Explain **three** reasons for low volume of trade between the countries in Africa.**(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)**

8. (a) (i)   State **three** physical factors that favour tea growing in Kericho County. **(3 marks**

(ii) Describe the stages involved in tea processing at the factory.   **(7 marks)**

 (b)   Outline **three** ways in which tea is marketed in Kenya.   **(3 marks)**

 (c)   Explain **thre**e physical problems facing small scale tea farmers in Kenya.   **(6 marks)**

   (d) Your Geography class carried out a field study on a tea plantation.

(i) Give **three** reasons why it is important to prepare a route map of the area.   **(3 marks)**

(ii) State **three** methods that the class would have used to present data.   **(3 marks)**

9. The map below shows the major fishing grounds of the world. Use it to answer question (a)
        (i), (ii) and (iii)
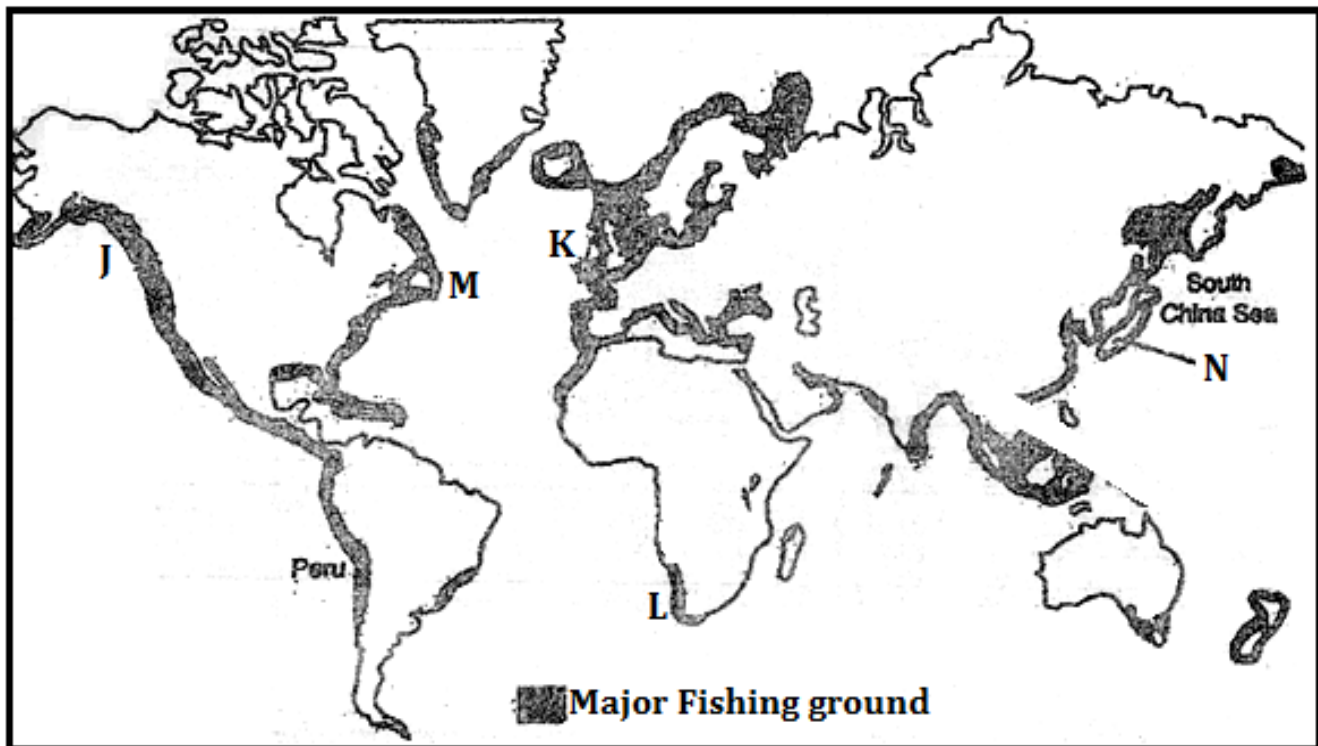
(a) (i) Name the fishing ground marked J,K,L and **M**   **(4 marks)**

(ii) Name **the two** ocean currents that converge at region **M**   **(2 marks)**

(iii)   Explain **three** physical factors that have favoured fishing in country N.   **(6 marks)**

(b) (i) Describe how trawling as a method of fishing is carried out.   **(5 marks)**

(ii)   Explain **four** measures being undertaken in Kenya to reduce overfishing of

        the natural water fisheries   **(8 marks)**

10. (a) (i)   Name **three** non-renewable sources of energy.   **(3 marks)**

(ii)   State **four** advantages of solar energy.   **(4 marks)**

(b) The diagram below shows the Kenya's hydroelectric power stations along River Tana.
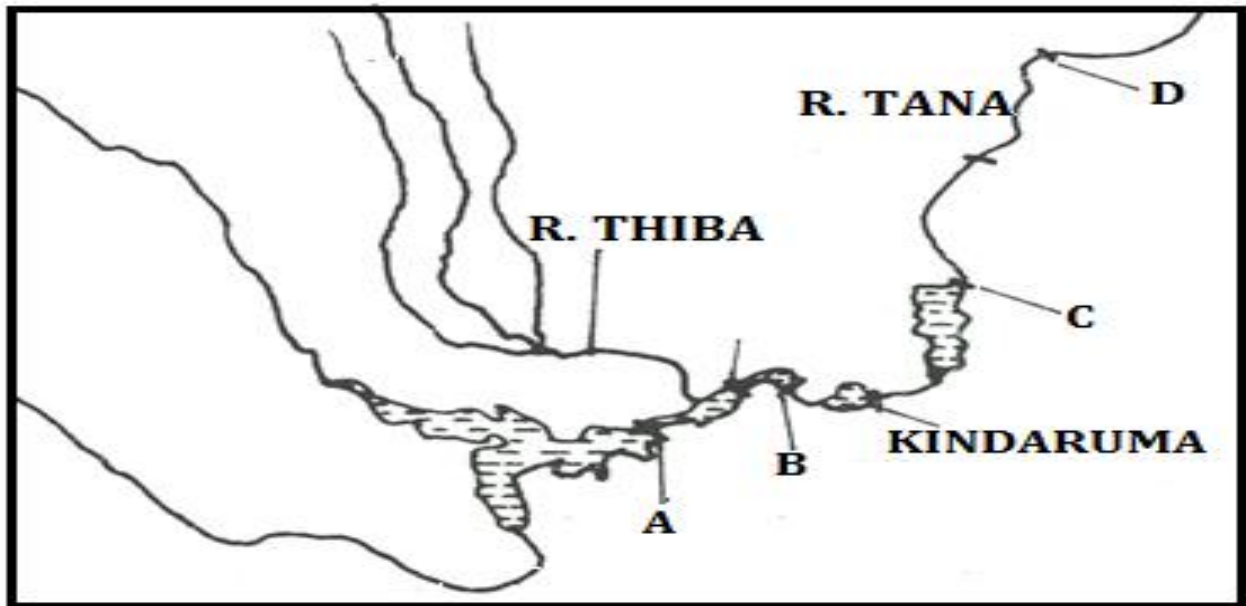
(i)   Name the H.E.P stations marked **A, B** and **C**.   **(3 marks)**

(ii)   The proposed H.E.P dam site marked **D**.   **(1 mark)**

(iii)   Explain **four** challenges hindering hydroelectric power generation in Kenya

    (8 marks)

(d) (i)   What is an energy crisis.   **(2 marks)**

(ii)   Explain the effects of an energy crisis in the following sectors.

- Agriculture   **(2 marks)**
- Industries   **(2 marks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 3

312/1

GEOGRAPHY

PAPER 1
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		25	
TOTAL SCORE			

SECTION A.

Answer all the questions in this section

1. a)   What is the relationship between Geography and Economics.   **(2 marks)**
b) Differentiate between habitat and environment.   **(2 marks)**

2. a) Define the terms rotation and rotation of the earth.   **(2 marks)**
b) List the three major methods of mining.   **(3 marks)**

3. a) Name two minerals that make up granite rocks.   **(2 marks)**
b) Name two features that results from fissure eruption.   **(2 marks)**

4. a) List three types of faults.
b) Identify two agents of weathering.   **(2 marks)**

5. a) i)   Identify two effects of ocean currents on the adjacent coastal regions. **(2 marks)**
   ii) Distinguish between an ocean and a sea.   **(2 mark)**
b) Give two ways in which Kenya has benefited from coastal landforms.   **(2 marks)**

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 questions.

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)**

(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. (**2mks**)

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.   **(4marks)**

- 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) What is vegetation.   **(2 marks)**

b) Explain how the following factors influence vegetation in Kenya.

 i) Soil   **(2 mks)**

 ii) Relief   **(2 mks)**

c) The diagram below represents zones of natural vegetation on a mountain in Africa. Use it to answer questions   (i) and (ii)
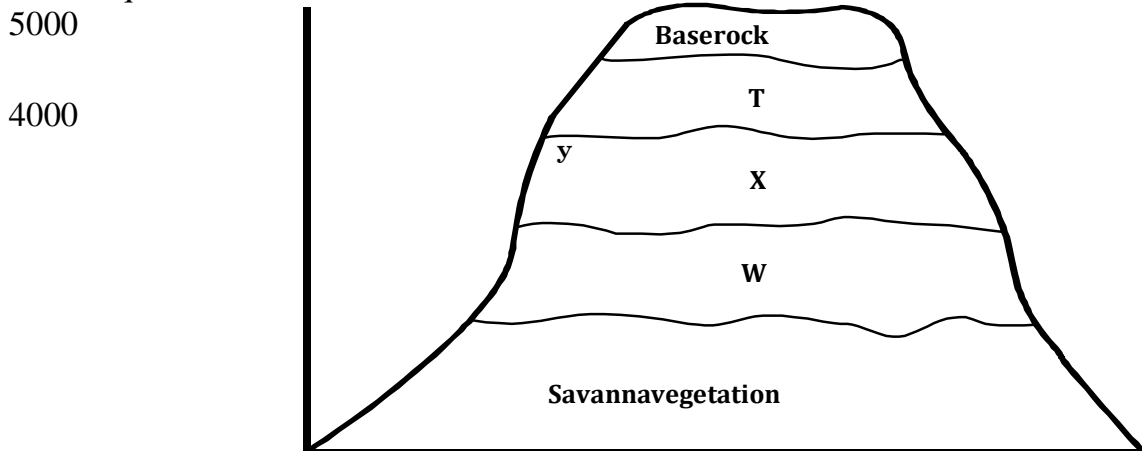
i) Name the vegetation zones marked W, X and Y.   **(3 marks)**

ii) Describe the characteristics of vegetations zone marked W.   **(6 marks)**

 d) i) Give three impact of climate change on vegetation in Kenya.   **(6 marks)**

ii) You are planning to carry out a field study on a rainforest vegetation.

 Identify four challenges you are likely to face.   **(4 marks)**

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

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

 iii) 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) i) Name three types of glacial moraines.   **(3 marks)**

d) ii) Explain four positive effects of glaciations in lowland area.   **(8 marks)**

9. a) i) Name the tree ways in which wind erosion takes place.   **(3 marks**

    The diagram below represents features resulting from wind erosion in a desert. Use it to answer question a(ii)
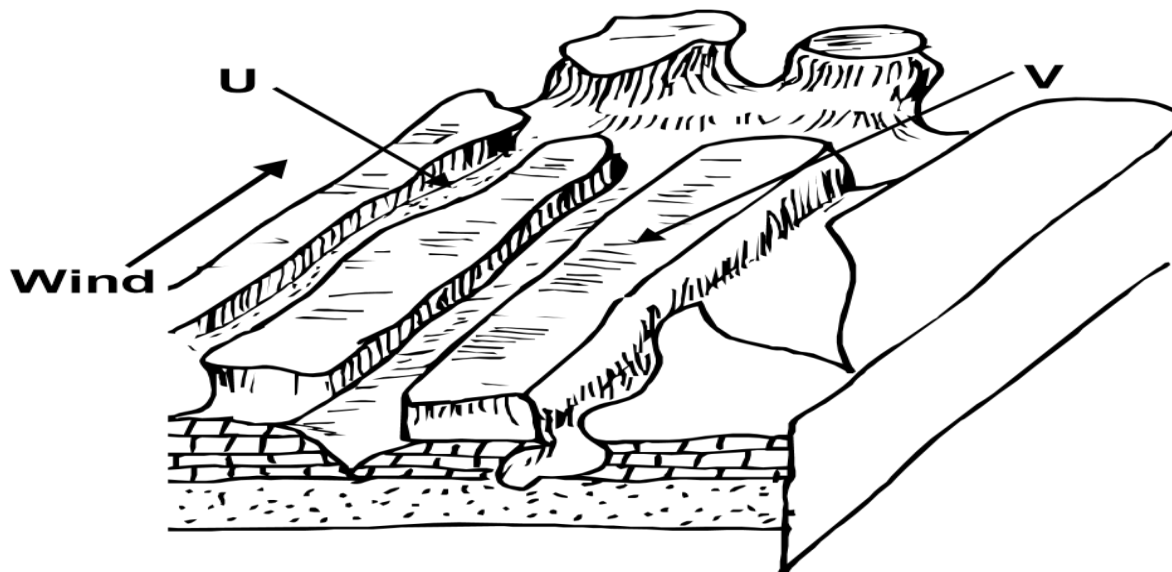
ii) Name the features marked U and V   **(2 marks)**

b) i) Explain how an oasis is formed.   **(6 marks)**

ii) Explain four ways in which desert features are of significance to human activities.

(8 marks)

c) You plan to carry out a field study in an arid / desert area. Describe what you are likely to observe.   **(6 marks)**

10. a) Name TWO processes of underground movement of water in limestone areas. **(2 marks)**

b) State two factors that influence the occurrence of underground water**. (2 marks)**

c) The diagram below shows the inner part of a limestone area. Use it to answer the questions that follow.
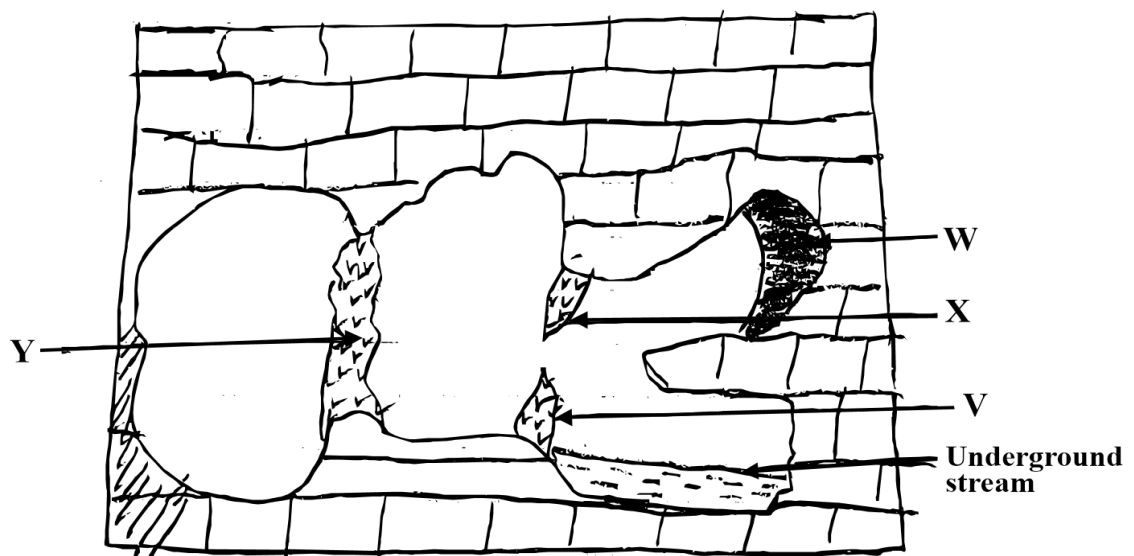
i) Name the features X, V and W.   **(3 marks)**

ii) Describe how the feature marked Y is formed.   **(6 marks)**

d) Explain two factors that influence the formation of features in limestone areas. **(6 marks)**

e) Your class is planning a field study of the area eroded by water.

i) Give three reasons why you will need a map of the area of the study.   **(3 marks)**

ii) Name two erosion features you are likely to observer.   **(2 marks)**

iii) After your study, what recommendations will you give to assist the local community to rehabilitate the area under study.   **(3 marks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 3

312/2

GEOGRAPHY

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SECTION A
Answer all questions in this Section

1.a) Name two tree species of high commercial value in a coniferous forest. **(2mks)**

 b) State three characteristics of Tropical hardwood forests which hinder exploitation. **(3mks)**

2. State two factors that influence exploitation of minerals. **(2mks)**

b) Describe how soda ash is extracted in Lake Magadi. **(3mks)**

3.a) i) Distinguish between population distribution and population density. **(1mk)**

ii) What is dependency ratio? **(1mk)**

b)State three reasons for reduced fertility rate in Kenya. **(3mks)**

4. a) i)Name two dairy cattle breeds reared in Kenya. **(2mks)**

b)State three differences between beef farming in Argentina and Kenya. **(3mks)**

5.a) Give two advantages of wood as a source of fuel. **(2mks)**

b)State three conditions necessary for the formation of Oil. **(3mks)**

SECTION B

6. Study the table below that shows Kenya's visible balance of Trade with some selected countries. 1982-1984 (figures in pounds '000).

County	1982		1983		1984	
	Exports	**Imports**	**Exports**	**Imports**	**Exports**	**Imports**
UK	72,000	135,000	96,000	120,000	140,000	152,000
Germany	60,500	75,5000	82,000	70,000	98,000	98,000
USSR	4,500	150	3,000	100	4,000	300
U.S.A	35,000	54,000	40,000	56,000	38,000	50,000
Uganda	58,000	1,300	7,2000	800	67,000	100,000

a)i) Draw a comparative line graph showing the exports from 1982 to 1984 using a vertical scale of 1:10 million and horizontal scale. **(8mks)**

ii) State three disadvantages of this graph experienced during the construction. **(3mks)**

b) i) Define balance of trade. **(2mks)**

ii) Calculate the balance of trade for Kenya 1984. **(2mks)**

c. i) Name two major exports and two major imports of Kenya.   **(4mks)**

ii)Give three reasons for the nature of Kenya's balance of trade from the table above.   **(3mks)**

d) State three measures the government has taken to achieve a favourable balance of trade.

7.a) i) Name two provinces in Canada where wheat is grown.   **(2mks)**

ii) Explain four physical factors favouring wheat growing in Kenya.   **(8mks)**

b) Compare wheat farming in Kenya and Canada under the following headings:

- cultivation   **(2mks)**

- harvesting   **(2mks)**

- marketing   **(2mks)**

c. i) Explain three human and economic problems facing wheat farming in Canada. **(6mks)**

ii) State three importance of wheat farming in Canada.   **(3mks)**

8.a.i) Name two countries found in the north West pacific fishing ground.   **(2mks)**

ii) Explain four physical factors that favour fishing in the above fishing ground.   **(8mks)**

b) Describe the following methods of fishing:

i) drifting   **(4mks)**

ii) purse seine   **(4mks)**

c) compare fishing in Kenya and Japan under the following sub-headings:

i)   fishing ground   **(2mks)**

ii) climate   **(2mks)**

d) State 3 significance of fishing to the economy of Kenya.   **(3mks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 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) Write your name, admission number and class in the spaces provided above.
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(e) All answers must be written in the answer sheets provided.

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAX SCORE	SCORE
A	1 – 5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A
Answer all 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 East (1:50000)** provided and answer the following questions.
i) What is the bearing of the trigonometrical station at Grid reference 081980 from the rock out crop at grid reference 071992. **(1 mark)**

ii) Measure the length of the all – weather road (bound surface) B25 /3 from the junction at grid reference 968884 all the way to the edge of the area covered by the map in the east at GR 100816. (Give your answer in kilometers). **(2 marks)**

iii) Using a vertical scale of 1cm to represent 100metres, draw a Cross-section between GR:040940 and 040990. **(4 marks)**
On it mark and name;
- the escarpment. **(1 mark)**
- Power transmission line. **(1 mark)**
- Plantation. **(1 mark)**

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

ii) Explain how relief has experienced settlement in the area covered by the map. **(2 marks)**

c) Citing evidence from the map, give three economic activities carried out in the area covered by the map other than crop growing. **(3 marks)**

d) Students from the school at Mosongo (Grid square 0681) carried Out a field study of the course of the river Ombeyi.

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

ii) Give three advantages of studying rivers through fieldwork.   **(3 marks)**

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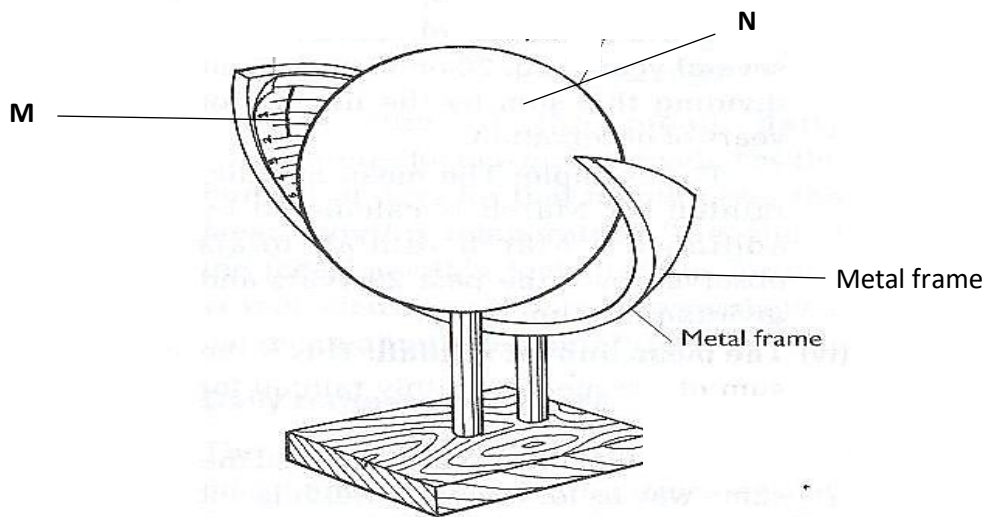
(i) Name the parts marked M and N.   **(2 marks)**

(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

(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 marks)**

(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)**
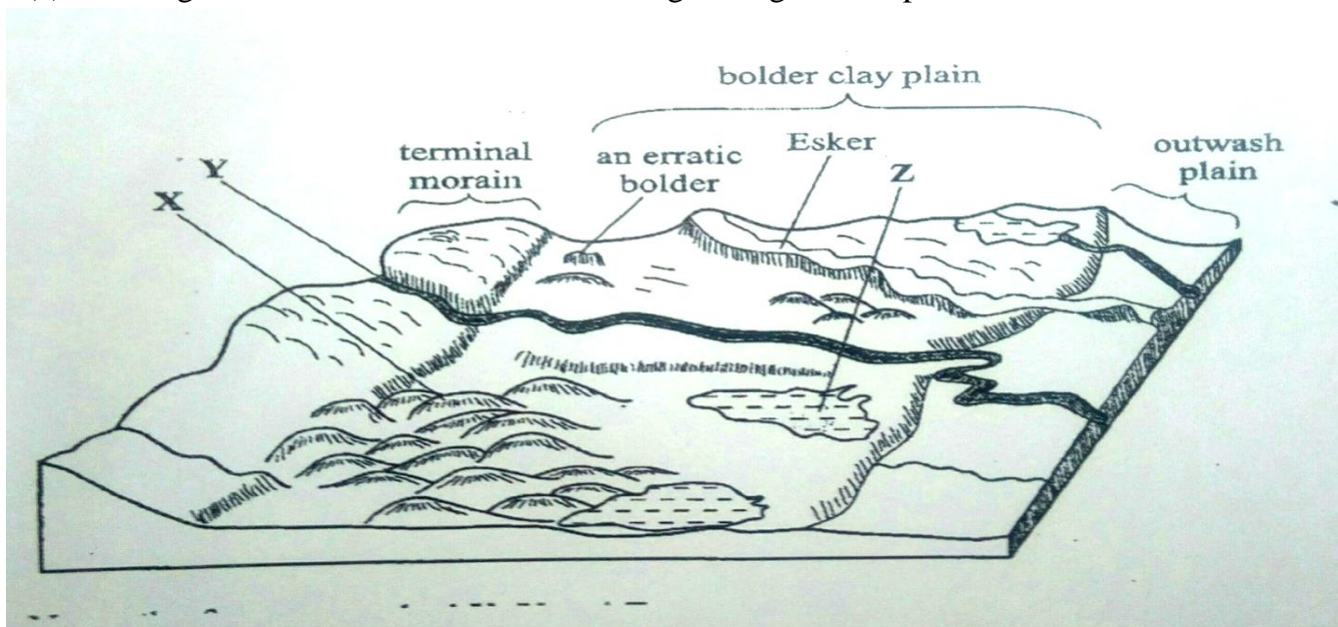
10. (a) Describe plucking as a process in glacial erosion.   **(4 marks)**
 (b) Explain three conditions that lead to glacial deposition.   **(6 marks)**
    (c) The diagram below shows features resulting from glacial deposition in a lowland area.

(i) Name the features marked X, Y, and Z.   **(3 marks)**
 (ii) Describe how terminal moraine is formed.   **(4 Marks)**
 (d) Explain four positive mocfects of glaciation in low land area.   **(8 marks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 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

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

SECTION A
Answer all 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	SOUTHAFRICA	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)**

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 occurance of petroleum in the earth's crust.Use it to answer question a i)
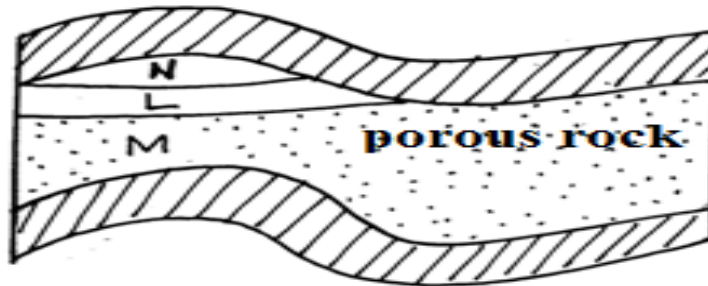
a) (i)Name the substance in the areas labelled L,M and N **(3marks)**

(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)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 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

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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) Name two theories of the origin of the earth. **(2marks)**

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

2(a) State two ways in which underground water may reach the earth's surface **(2marks).**

(b) Draw a well labelled diagram of the hydrological **(5marks)**

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

4 (a) What is natural vegetation? **(2marks)**

(b) State **three** characteristics of the Mediterranean type of vegetation **(3marks)**

5(a) Name two major earthquake zones of the world **(2marks)**

(b) Give **three** factors that influence the rate of weathering **(3marks)**

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

6. Study the map of **KISUMU EAST** 1:50,000provided 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)**

(b) 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 marks)

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

7) (i) Apart from fold mountains, name three other features resulting from folding   **(3marks)**

ii) On the outline map of Africa provided, name the feature marked x, y and z.   **(3marks)**
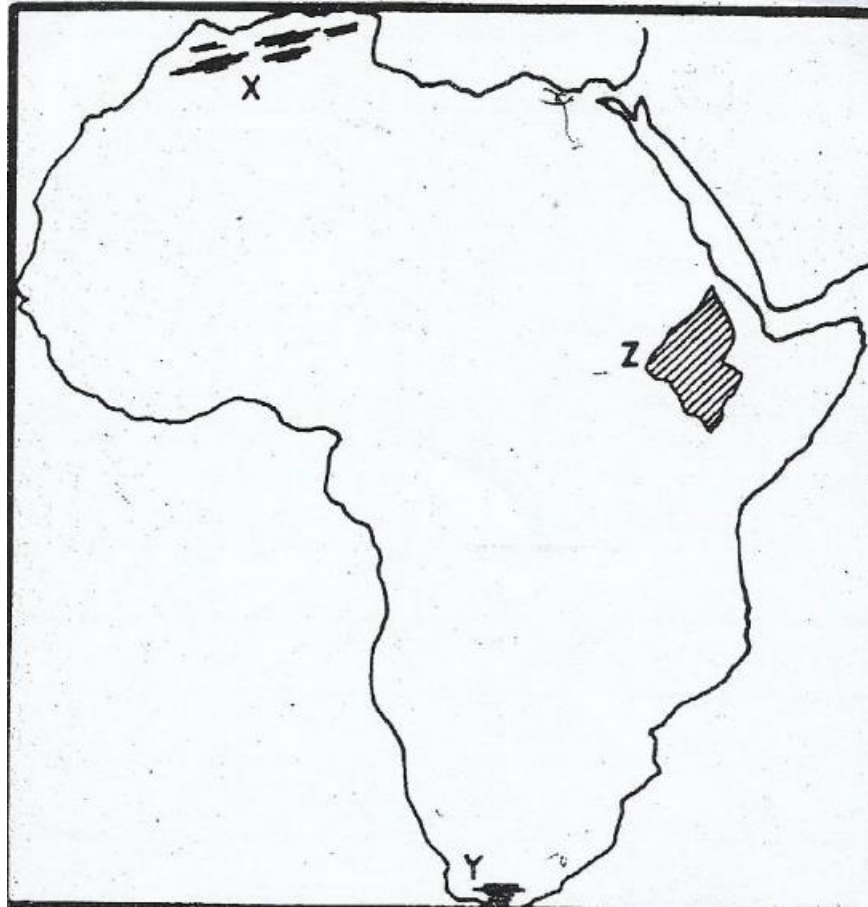
iii) Describe the formation of Fold Mountains   **(5marks)**

c) (i) Name four major orogeny   **(4marks)**

ii) Using a well labelled diagram describe the formation of an Asymmetrical fold   **(6marks)**

(d) Explain two ways in which Fold Mountains influence climate   **(4marks)**

8) a (i) What is a river divide   **(2marks)**

ii) Describe three ways by which a river transports its load.   **(6marks)**

(b) Describe the characteristics of river in its old stage   **(4marks)**

(c) Describe each of the following drainage patterns

i) Superimposed drainage pattern   **(3marks)**

ii) Centripetal drainage pattern   **(2marks)**

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

ii) The diagram below shows a section of a river. Use it to answer the questions that follow.
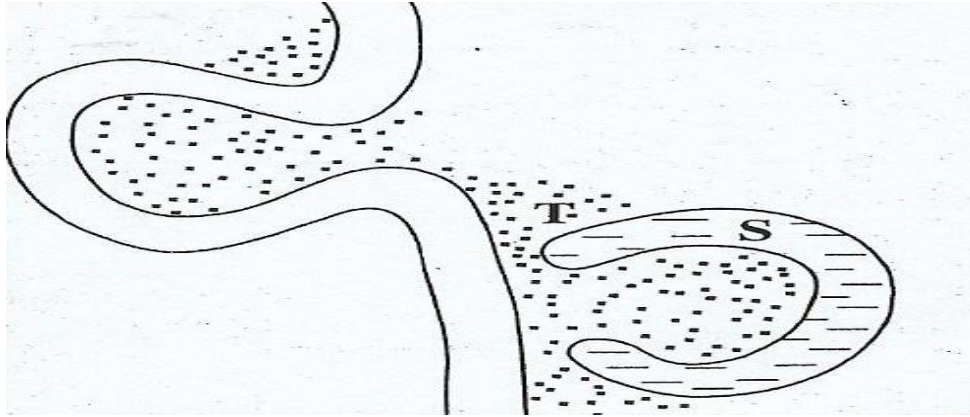
Name the features marked S and T   (**2marks**)
iii) State four conditions that are necessary for the formation of the feature marked S. (**4marks**)

9 (a) Describe the following characteristics of minerals
i) Colour   (**2 marks**)
ii) Cleavage   (**2marks**)
iii) Hardness   (**2 marks**)
b) (i) Give two types of igneous rocks   (**2marks**)
iv) Explain three conditions necessary for the growth of coral polyps   (**3marks**)
c) Describe three ways in sedimentary rocks are formed   (**9marks**)
d) (i) What is rock metamorphism?   (**2marks**)
(ii) State three causes of heat and pressure during metamorphism.   (**3marks**)

10 a (i) What is soil catena   (**2marks**)
(ii) Draw a labelled diagram to show a well develop soil profile.   (**5marks**)
(iii) State three characteristics of soils found in the arid regions of Kenya   (**3marks**)
(b) Give three factors that determine the colour of soils   (**3mks**)
c) Describe how lateralization occurs   (**6marks**)
d) Describe how the following types of erosion occur.
i) Sheet erosion   (**2marks**)
ii) Gulley erosion   (**2marks**)
d) Give two factors that influence the thickness of a soil   (**2marks**)

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KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 5

312/2

GEOGRAPHY

PAPER 2
TIME: 2¾ HOURS

NAME………………………………………………………………………………………

SCHOOL……………………………………………   SIGN……………………………

INDEX NO……………………………………………   ADM NO………………………

Kenya Certificate of Secondary Education.

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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)** What is the relationship between Geography and History?   **(2 marks)**

    (b) Identify *three* sub-branches of Geography *in* human and social sciences.   **(3 marks)**

2. **(a)** What is a mineral ore?   **(2 marks)**

    (b) State *three* ways in which mineral ores occur in the crust.   **(3 marks)**

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

    (b) State four factors that influence the distribution of forests in Kenya.   **(3 marks)**

4. **(a)** What is nomadic pastoralism?   **(2 marks)**

    (b) Give *three* reasons why nomadic pastoralists keep large herds of animals.   **(3 marks)**

5. **(a)** Name *two* types of environments.   **(2 marks)**

    (b) State *three* consequences of environmental degradation.   **(3 marks)**

SECTION B
*Answer question **6** and any other **TWO** questions from this section.*

6. *Study the photograph below and use it to answer the questions that follow*

    (a) (i) Identify the type of photograph shown above.   **(1 mark)**
          (ii) Identify *two* counties to the East of the Rift valley where the crop is grown. **(2 marks)**
    (b) Draw a rectangle measuring 8cm by 5cm. On it, sketch and label the main features.

                                                                               (7 marks)
    (c) State the physical conditions that favour coffee farming in Kenya. **(5 marks)**
    (d) Explain *five* differences between coffee farming in Kenya and Brazil.   **(10 marks)**

7. **(a) (i)**   What is fish farming?   **(2 marks)**
          (ii)   State *four* significance of fish farming.   **(4 marks)**

(b) Use the diagram below to answer the following questions.
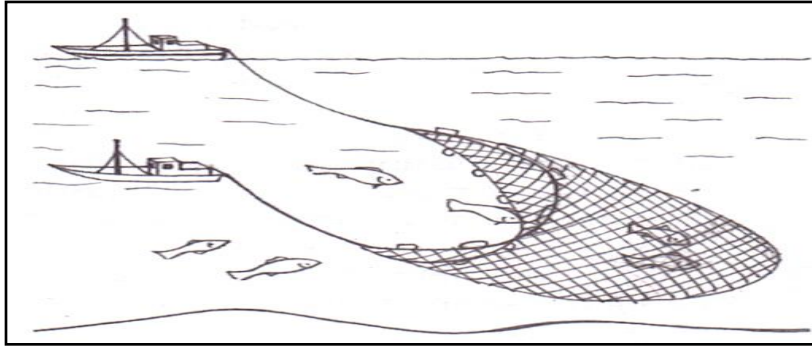
(i) Identify the fishing method. **(1 mark)**

(ii) Describe how the method above is used to catch fish. **(6 marks)**

(c) State *three* problems encountered by fishermen while fishing in Lake Victoria. **(3 marks)**

(d) Explain *four* reasons why marine fishing is less developed in East Africa. **(8 marks)**

8. **(a)(i)** Define the term wildlife. **(2 marks)**

(ii) Explain how the following factors has influenced distribution of wildlife in East Africa.

- Vegetation cover **(2 marks)**
- Rainfall variations **(2 marks)**
- Human factors **(2 marks)**

(b) (i) Identify *four* tourist attractions along the coast. **(4 marks)**

(ii) State *five* ways in which tourism in Kenya and Switzerland are similar. **(5 marks)**

(c) Explain the significance of tourism to Kenya's economy. **(8 marks)**

9. **(a) (i)** Name *three* non-renewable sources of energy. **(3 marks)**

(ii) Give *three* disadvantages of using wood as a source of fuel. **(3 marks)**

(b) The diagram below shows the Kenya's hydroelectric power stations along River Tana.
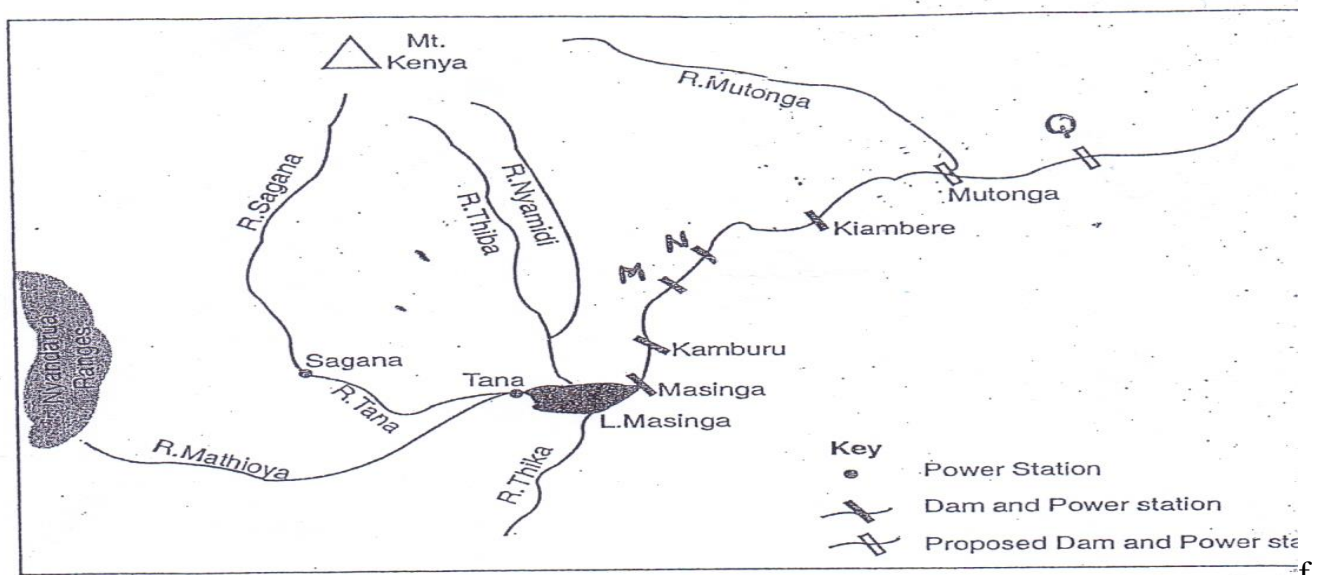
(i) Name the H.E.P stations marked **M** and **N**. **(2 marks)**

(ii) Name waterfall marked **Q**. **(1 mark)**

(iii) Apart from natural waterfalls, state *three* other physical factors that led to the

establishment of seven forks hydroelectric power project along river Tana.   **(3 marks)**
(c)(i)   Identify *two* areas in Kenya where wind energy is harnessed.   **(2 marks)**
(ii) Give *three* advantages of wind energy.   **(3 marks)**
(d)(i)   Define energy crisis.   **(2 marks)**
(ii) Explain the effect of energy crisis under the following sub-heading.
- Agriculture   **(2 marks)**
- Tourism   **(2 marks)**
- Industries   **(2 marks)**

10.(a)(i) What is a cottage industry?   **(2 marks)**
(ii)Give *four* reasons why the government of Kenya encourages the establishment of Jua kali industries.   **(4 marks)**
(b) Study the sketch map shown below of the Ruhr industrial region . Use it to answer question (i).
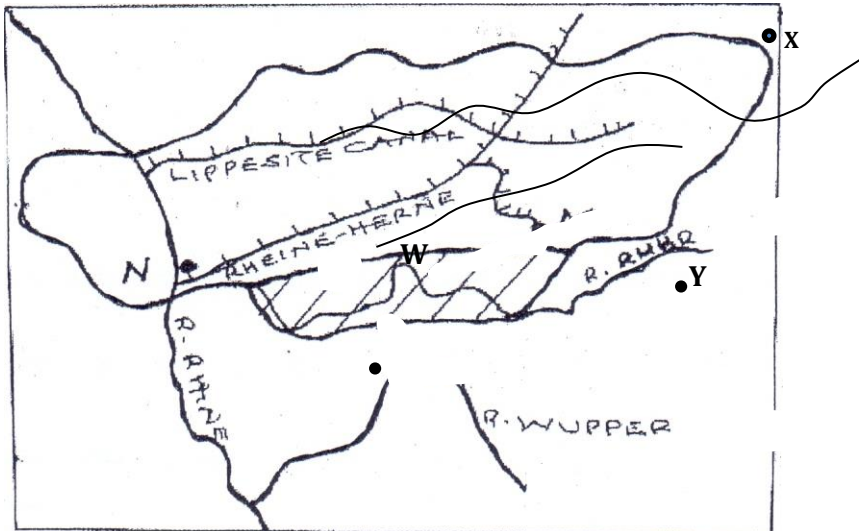
(i)   Name the canal marked **X**.   **(1 mark)**
(ii)   Name the river marked **Y**.   **(1 mark)**
(iii)   Name the town marked **W**.   **(1 mark)**
(c)(i) Show how the government may solve the following problems facing industries in Kenya.
- Competition from cheap imports.   **(1 mark)**
- High cost of energy/electricity   **(1 mark)**
- Limited market.   **(1 mark)**

(ii) Explain *three* factors that favoured car manufacturing industry in Japan.   **(6 marks)**
  (d) Form four Geography students carried out a field study at a paper mill.
    (i)   State *three* ways in which they prepared for the field **study.**   **(3 marks)**
    (ii)   Give *four* reasons why the industry was located near a source of water the student could have established.   **(4 marks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 6

312/1

GEOGRAPHY

PAPER 1
TIME: 2¾ HOURS

NAME...

SCHOOL..   SIGN.................................

INDEX NO..   ADM NO..........................

Kenya Certificate of Secondary Education.

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

SECTION A (25 MARKS)
Answer ALL the questions in this section

1. **a)**   State briefly **three** ways how air pressure influences the weather of a place. **(3 marks)**

   b)   Identify **two** Global winds that influence the climate of Kenya.   **(2 marks)**

2. **a)**   Give **two** examples of chemically formed sedimentary rocks.   **(2 marks)**

   b)   State **three** conditions necessary for the growth of coral.   **(3 marks)**

3. **a)**   Name the **two** theories that explain the origin of the earth.   **(2 marks)**

   b)   Give **three** proofs that the earth is oblate spheroid.   **(3 marks)**

4. **a)**   Name the categories of lakes formed by earth movement.   **(2 marks)**

   b)   Give **two** examples from East Africa of each category named in (a).   **(2 marks)**

5. **a)**   Define of hydrological cycle.   **(2 marks)**

   b)   State **four** factors that determine the amount of water that sinks into the ground or flows on the surface.   **(4 marks)**

SECTION B (75 MARKS)

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) Convert the ratio scale of the map to into a statement scale.   **(2 marks)**

   (ii) Give six figure grid reference of the trigonometrical station 1154 SKP 21 in the southern part of the area covered by the map.**(2 marks)**

   (iii) Calculate the bearing of Rabuor market from Air Photo Principal point in grid reference 0986.

   (2 marks)

   (iv) What is the length of the section of railway line west of the easting 00 to Kisumu station? Give your answer in kilometres.**(2 marks)**

   (v) Identify **three** drainage features in the area covered by the map.**(3 marks)**

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

   (c) Citing evidence from the map, give **two** factors that favour cultivation of sugarcane in the area covered by the map.**(4 marks)**

   (d) Identify **three** social activities carried out within Kisumu municipality. Give evidence.
   (6 marks)

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

a) Name;

i) The type of climate found in the shaded area marked Q. **(1 mark)**

ii) The ocean current marked R and S. **(2 marks)**

b) Describe the characteristics of the type of climate found in the shaded area marked T.**(8 mk**

c) Explain how the following factors influence climate.

i) Altitude **(4 marks)**

ii) Distance from the sea **(4 marks)**

d) i) Explain **two** effects of climate change to the physical environment. **(4 marks)**

 ii) State **two** climatical conditions experienced in the Sahara desert. **(2 marks)**

8. a) **i)** Identify **two** factors that influence glacial erosion. **(2 marks)**

 ii) The diagram below shows the long profile of a glacial trough.
 Study it carefully and answer the questions that follow.
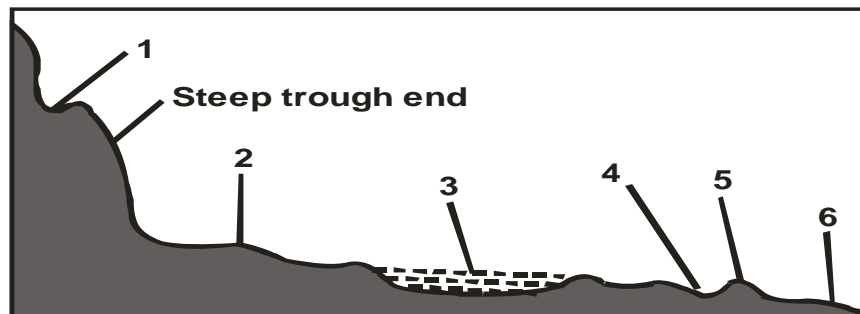
 Name the parts labeled 1 to 6. **(6 marks)**

 b) Describe the **four** various ways in which tills are formed at the coast. **(8 marks)**

 c) i) What is an erratic? **(2 marks)**

 ii) Give **three** examples of areas with erratics. **(3 marks)**

 d) A field study was carried out in an area affected by wind action.

 i) List **two** types of interviews the study would have made use of. **(2 marks)**

 ii) Give **two** problems the researcher would have experienced. **(2 marks)**

9. **a)** What is natural vegetation? **(2 marks)**

   b) **i)** Give the types of grassland vegetation found in the following countries. **(3 marks)**
   - New Zealand
   - Argentina
   - South Africa

   ii) State **two** factors why mountain tops have no vegetation. **(2 marks)**

   c) i) Explain **four** ways in which coniferous forest is adapted to the climatic conditions.
   (8 marks)

   ii) Explain how the following factors influence the distribution of vegetation.
   - Altitude **(2 marks)**
   - Human beings **(2 marks)**

   d) You are planning to carry out a fieldstudy on the forest vegetation near your school.

   i) State **four** reasons why it is necessary to have a route map. **(4 marks)**

   ii) Give **two** reasons why you need a tape measure. **(2 marks)**

10. **a)** i) What is soil? **(2 marks)**

    ii) Give **three** components of soils. **(3 marks)**

    b) The diagram below shows different layers of soil. Use it to answer questions b) i), ii), iii).
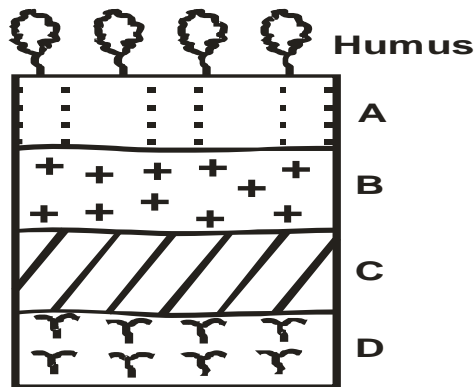
A SOIL PROFILE

   i) Name the soil layers marked B, C, and D. **(3 marks)**

   ii) Give **two** main processes of soil formation which takes place in horizon A. **(2 marks)**

   iii) Name **four** characteristics of soil in horizon B. **(4 marks)**

   c) Explain how the following helps in the maintenance of soil fertility and quality.

   - Crop rotation **(2 marks)**

   - Mixed farming **(2 marks)**

   - Bush fallowing **(2 marks)**

   d) State **five** significances of soils to human activities. **(5 marks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 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) Write your name, admission number and class in the spaces provided above.
*(b) This paper has **two** sections: **A** and **B***
*(c) Answer **all** the questions in section **A***
*(d) Answer **question 6** and any other **two** questions from section **B***
*(e) All answers must be written in the answer sheets provided.*

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAX SCORE	SCORE
A	1 – 5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A (25 MARKS)

Answer ALL the questions in this section

1. a) Name any **two** underground mining methods. **(2 marks)**

   b) State any **three** negative effects of mining on the environment. **(3 marks)**

2. a) List down **three** human factors that favour wildlife conservation. **(3 marks)**

   b) State **two** advantages of domestic tourism in Kenya. **(2 marks)**

3. a) What are floods? **(2 marks)**

   b) Name **three** rivers in Kenya which cause large scale flooding. **(3 marks)**

4. a) Define the following terms;

   i) Fertility rate **(1 mark)**

   ii) Mortality rate **(1 mark)**

   b) State **three** types of information that may be derived from an age-sex pyramid. **(3 marks)**

5. Use the map of East Africa below to answer the questions that follow.
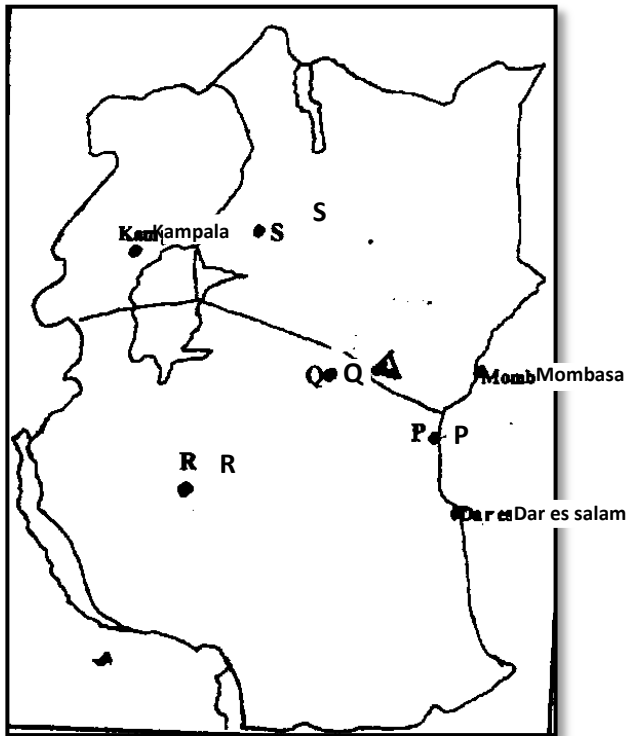
   a) Name the towns marked P, Q and R. **(3 marks)**

   b) State **two** major functions of the town marked S. **(2 marks)**

SECTION B (75 MARKS)

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

6. The table below shows the value of export crops from Kenya in the year 1995.
   Use it to answer the questions below.

| Crop / Year	1995
Maize	224,000,000
Coffee	168,000,000
Tea	320,000,000
Horticultural	190,000,000
TOTAL	902,000,000

a) i) Draw a divided rectangle measuring 15cm to represent the above data. **(9 marks)**

ii) State **three** advantages of using divided rectangles to represent geographical data.

(3 marks)

b) State **four** physical conditions that favour coffee growing in Kenya highlands**. (4 marks)**

c) Describe the processing of coffee from harvesting to marketing. **(6 marks)**

d) List **three** ways in which planted coffee is taken care by farmers. **(3 marks)**

7. Use the map of Kenya below to answer question 7. a) i), ii) and iii).
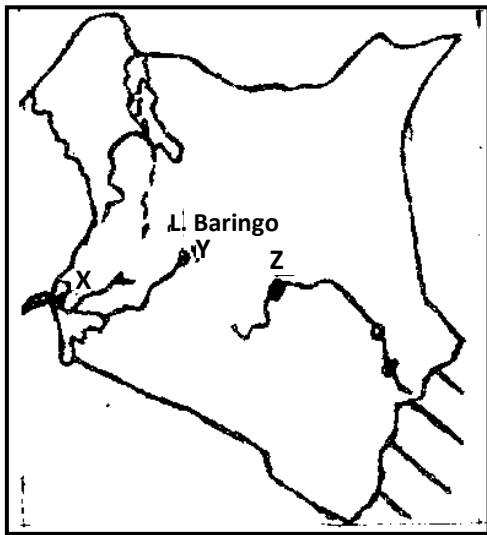
a) i) Identify the irrigation schemes marked X, Y and Z and in each case the main crop grown.

(6 marks)

ii) Explain **four** factors that led to the location of irrigation scheme Y. **(8 marks)**

iii) State **four** problems that are experienced in the irrigation marked Z. **(4 marks)**

b) What is a polder? **(2 marks)**

c) Give **five** benefits of the Zuyder Zee project. **(5 marks)**

8. a) i)   Name **two** types of fishing grounds in Kenya.   **(2 marks)**

ii) Give **two** types of fishing methods.   **(2 marks)**

i) Give **four** reasons why marine fishing industry in east Africa is not well developed.

`   **(4 marks)**

b)   Explain **four** ways in which marine fisheries are being conserved in Kenya. **(8 marks)**

c)   Use the map of North America below to answer questions (i) and (ii).
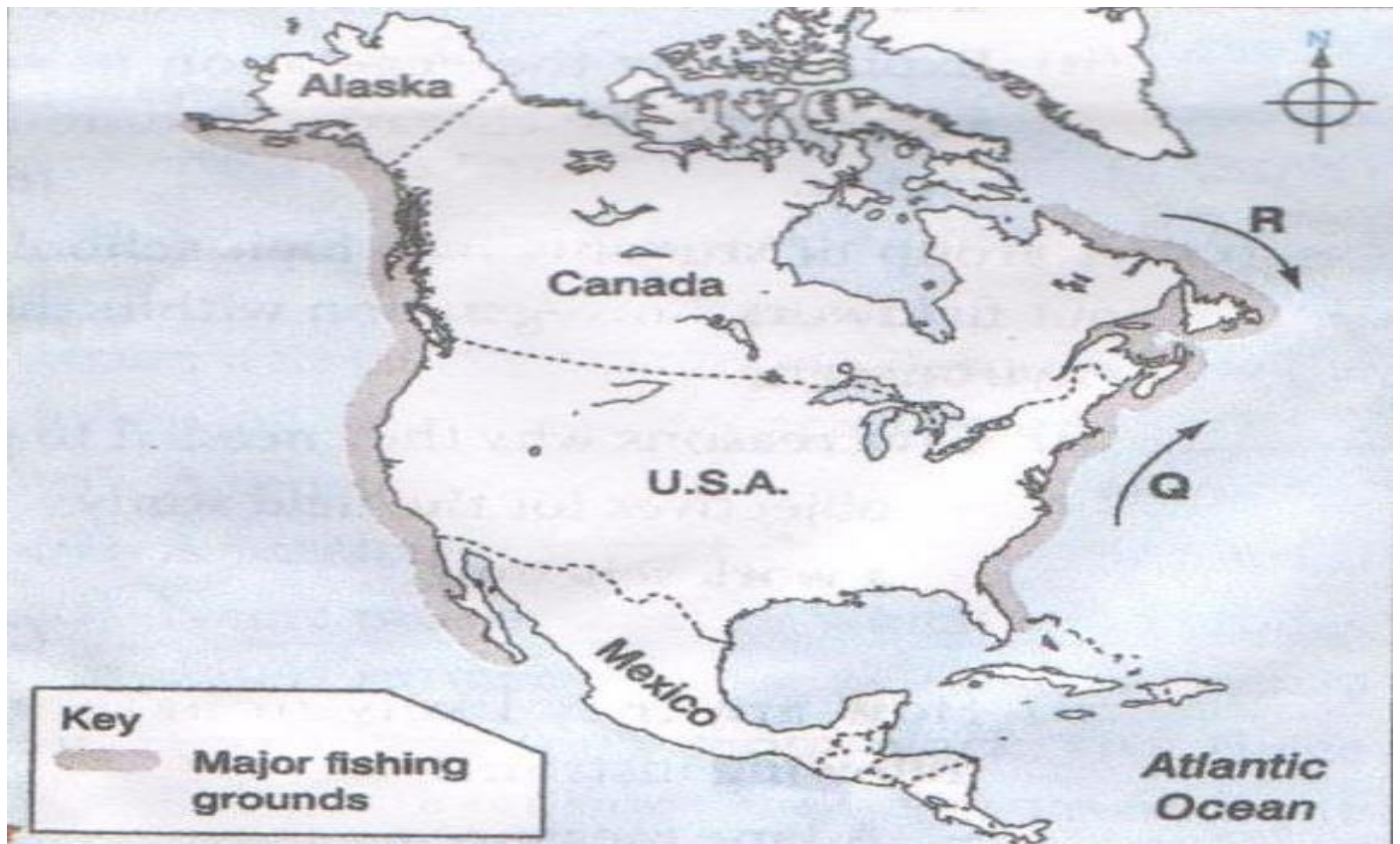
i)   Name **one** method of fishing used in the shaded area.   **(1 mark)**

ii)   Name ocean currents marked Q and R.   **(2 marks)**

d)   Explain why major fishing grounds of the world are located in the temperate latitudes

of the northern hemisphere.   **(6 marks)**

9. a)   Distinguish between manufacturing and tertiary industries.   **(2 marks)**

b)   i)   Name **four** agricultural food processing industries in Kenya.   **(4 marks)**

ii) Explain **four** factors that influenced the location of the iron and steel industries in

the Ruhr region of Germany.   **(8 marks)**

c)   Give **five** reasons why the government of Kenya encourages the establishment of Jua

Kali industries.   **(5 marks)**

d) You intend to carry out a field study in a coffee factor near your school.

i) State **three** reasons why you would visit the area of study in advance. **(3 marks)**

ii) You have prepared a working schedule for your study.

State **three** items you would include in your schedule. **(3 marks)**

10. a) Draw an outline map of Kenya. **(2 marks)**

b) On the map indicate the following forests. **(3 marks)**

i) Kakamega forest

ii) Mt. Kenya forest

iii) Arabuko sokoke forest

c) i) Name **three** natural causes of forest depletion. **(3 marks)**

ii) Describe **four** problems facing forests in Kenya. **(8 marks)**

d) i) State **three** factors favouring production of soft wood forests in Canada**. (3 marks)**

ii) Explain **three** reasons why the Kenyan government should conserve her forests.

(6 marks)

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 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

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FOR EXAMINER'S USE ONLY

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

SECTION A

1. a) Explain the origin of the earth and the solar system according to the Nebular cloud theory.

(4mks)

b) Name **two** other theories that explain the origin of the earth and the solar system apart from the Nebular 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 Question 6 And Other Two Question 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. **(2marks)**

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

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

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

c. Citing evidence from the map give three economic activities apart from crop growing carried out in the area covered by the map. **(4marks)**

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

iv. State four findings they are likely to come up with. **(4marks)**

v. State three advantages of studying rivers through fieldwork. **(3marks)**

vi. What problems were the students likely to face during their field study? **(3marks)**

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

ii)With the use of a well labeled 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)**

iii. 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 in which 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**

10. The figure below shows underground zones of saturation. Use it to answer question a (i)
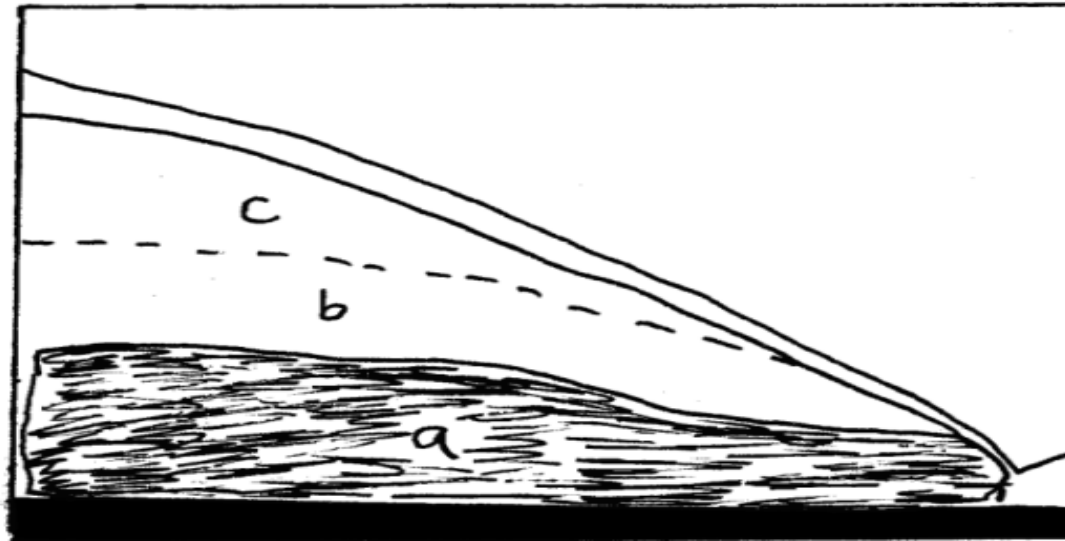
    a)   **i)**   Identify the zones marked a, b, and c.   **(3mks)**

       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 CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 7

312/2

GEOGRAPHY

PAPER 2
TIME: 2¾ HOURS

NAME………………………………………………………………………………………

SCHOOL……………………………………………… SIGN……………………………

INDEX NO……………………………………………… ADM NO………………………

*Kenya Certificate of Secondary Education.*

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

SECTION A
Answer All Questions

1(a) Define the term mining. **(2 marks)**

 (b) Identify three problems facing Gold mining in South Africa. **(3 marks)**

2(a) What is agroforestry. **(2 marks)**

 (b) Give four reasons why agroforestry is encouraged in Kenya. **(3 marks)**

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

 (b) Give three reasons why Nomadic pastoralists keep large herds of **animals.** **(3 marks)**

4. Use the map below to answer the following questions.
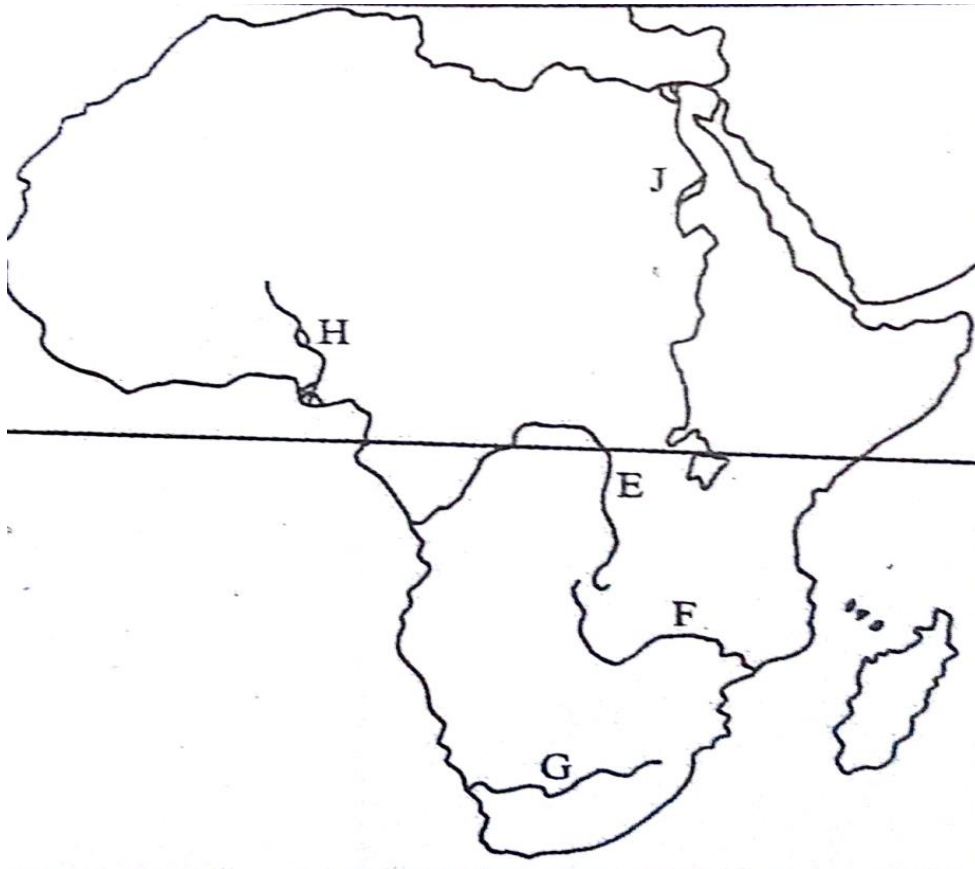
(a)Name the rivers marked E,F, and G**.** **(3marks)**

 (b) State two reasons why most African rivers are not **navigable.** **(2marks)**

5. Give two reasons why some industries are located near the source of raw materials. **(2 marks)**

 (b) Give three characteristics of Jua kali Industries in Kenya**.** **(3 Marks)**

SECTION II

Answer Question 6 And Any Other Two

6. The table below shows the number of tourists that visited Kenya from year 2010 to 2013 in '000' thousands.

Year \ Countries	2010	2011	2012	2013
Britain	25	20	30	35
France	15	15	20	15
Germany	10	20	20	25

(i)Using a scale of 1 cm represent 10,000 tourist, construct a cumulative bar graph to represent the data above.   **(11 marks)**

(ii) State two advantages of using this method to present data.   **(2 marks)**

(iii) Outline two conclusions from the graph presented.   **(2 marks)**

(b) Give four reasons why domestic tourism is being encouraged.   **(4 marks)**

(c) Explain three measures that Kenya should take in order to attract more tourists **(6 marks)**

7(a)(i) Define the term land reclamation.   **(2 marks)**

(ii) Apart from irrigation, give two methods used to reclaim land in Kenya**.**   **(2 marks)**

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

(ii)State three benefits of the scheme to the local people.   **(4 marks)**

C(i) Name two crops grown in the polders in Netherlands.   **(2 marks)**

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

You intend to carry out a field study on irrigation farming in Perkerra Irrigation Scheme.

(i)Identify two objectives you would develop for the study.   **(2 marks)**

(ii) State three physical factors that could have led to the establishment of the scheme.**(3 marks)**

8(a) Differentiate between Fishing and Fisheries.   **(2 marks)**

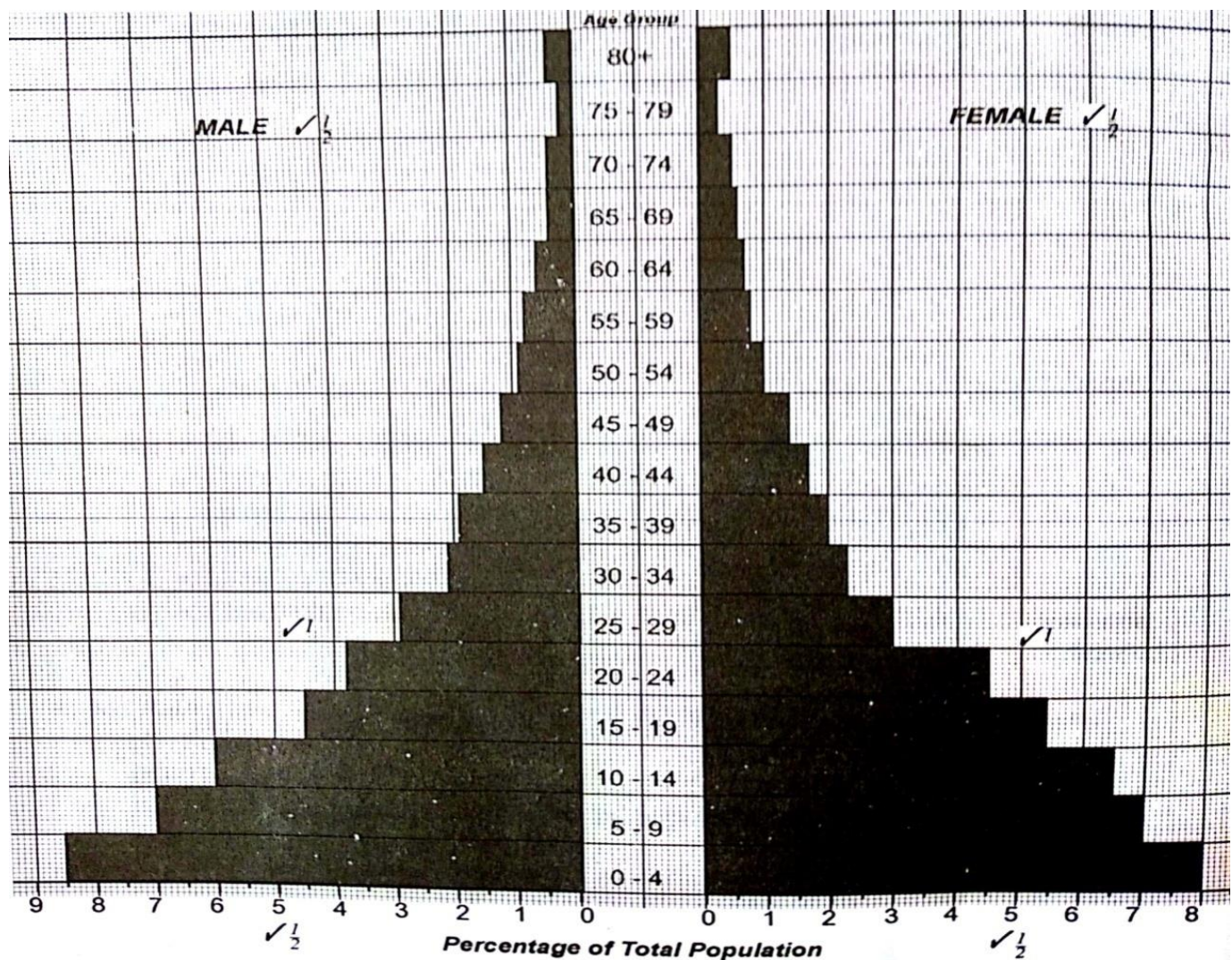(b) Explain how the following physical factors influence fishing.   **(6 marks)**

(i) Shallow waters

(ii) Cool waters

(iii) Convergence of cold and warm ocean currents.

(c) **Use** the diagram below to answer question (i) and (ii)
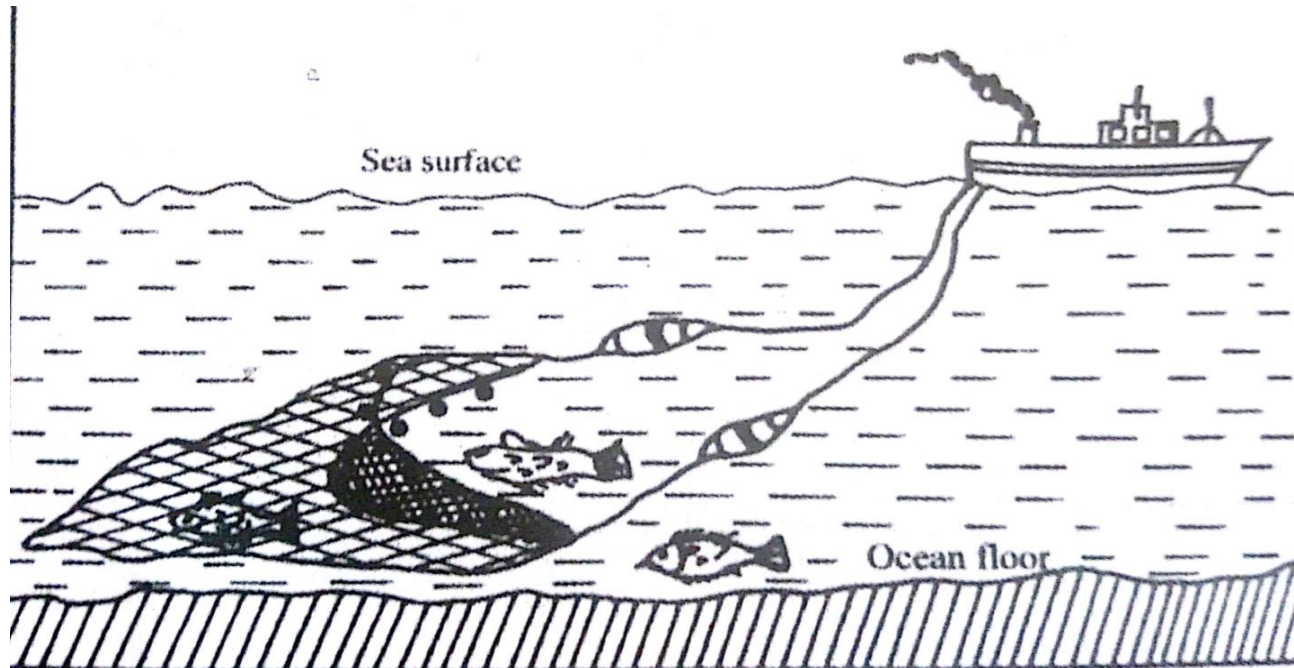
(i)Identify the method of fishing illustrated above.   **(2 marks)**

(ii) Briefly explain how the fishing exercise is carried out through the above method. **(6 marks)**

(iii) Give three characteristics of demersal fish.   **(3 marks)**

(d) Give two differences between fishing in Kenya and Japan, under the following Subtopics.

     (4 marks)

(i)Climate

(ii) Ocean currents

(e) Name two inland fishing in Kenya.   **(2 marks)**

9(a)(i) Define the term population.   **(2 marks)**

(ii) Give two primary sources of population data.   **(2 marks)**

b.Explain how the following factors influence population growth.   **(4 marks)**

(i)Mortality

(ii) Migration

c Explain four causes of rural to rural migration in Kenya.   **(8 marks)**

(d) The Pyramid below represents population structure in Kenya.

MALE ✓½   FEMALE ✓½

Age group
80+
75 - 79
70 - 74
65 - 69
60 - 64
55 - 59
50 - 54
45 - 49
40 - 44
35 - 39
30 - 34
25 - 29
20 - 24
15 - 19
10 - 14
5 - 9
0 - 4

Percentage of Total Population

(i)**Describe** the characteristics of the population as represented by the **pyramid.**   (4 mks)

(ii) **State** three factors that may have led to large population increase in **Kenya.**   (3mks)

(iii) **Outline** two forms of information that can be derived from a **population pyramid.(2 marks)**

10(a)(i) Differentiate management and conservation of the environment**.**   **(2 marks)**

(ii) **List** three environmental hazards.   **(3 marks)**

(b) **Explain** four reasons for environmental conservation.   **(8 marks)**

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

(d) **A Field** study was conducted on noise pollution.

(i)**List three** common causes of noise pollution the students would have studied**.**   **(3mks)**

(ii) **List three** effects of noise pollution the students would have studied.   **(3 marks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 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) Write your name, admission number and class in the spaces provided above.
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B	6	25	
		25	
		25	
TOTAL SCORE			

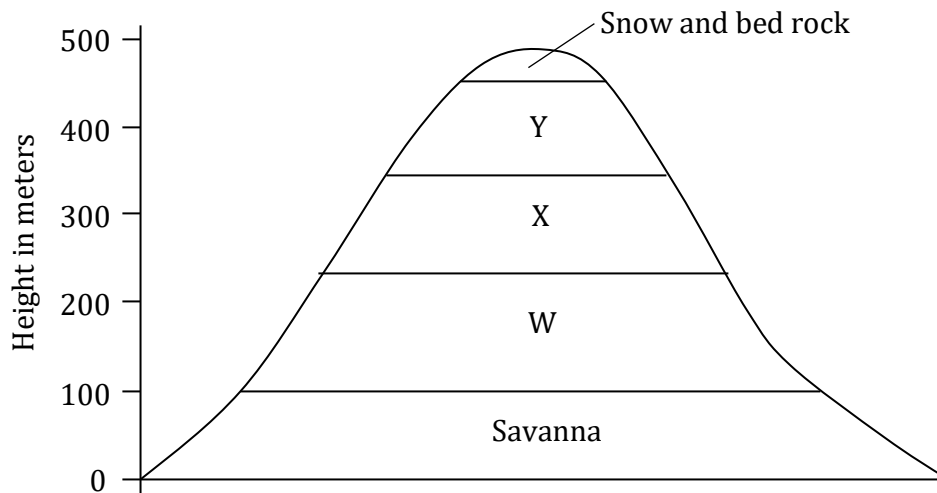## SECTION A
Answer all questions in this section.

1. (a) Name *two* types of environment. **(2 marks)**
   (b) List *three* main branches under physical geography. **(3 marks)**

2. Use the following weather instrument to answer the questions that follow.

   (a) Name the above instrument. **(1 mark)**

   (b) Describe how the instrument above works. **(4 marks)**

3. (a) Give *two* types of sedimentary rocks. **(2 marks)**

   (b) State *three* characteristics of sedimentary rocks. **(3 marks)**

4. The diagram below represents zones of natural vegetation on a mountain in Africa. Use it to answer questions **A** and **B.**

(a) Name the vegetation zones marked **W, X** and **Y**. **(3 marks)**

   (b) Give *two* uses of Savannah vegetation. **(2 marks)**

5. (a) What is soil erosion? **(2 marks)**

   (b) Name *three* types of soil erosion. **(3 marks)**

SECTION B

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

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

 (a)   (i)   Give the *six figure* grid reference of the forest Guard Post at grid square 5059.

(2 marks)

      (ii)   What is the magnetic variation of the map?   **(2 marks)**

  (b) (iii)   What is the general direction of the flow of river Chanya?   **(1 mark)**

(c) (i) Using a vertical scale of *1cm* to represents *50m;* draw a cross section

      along Northing 64 from Easting 68 to Easting 78. On it mark and label the   following.

➢ All weather road

➢ A hill.

➢ River.   **(7 marks)**

 (ii)   Calculate the vertical exaggeration of the cross section.   **(2 marks)**

      (iii)   Determine the intervisibility of the cross section.   **(1 mark)**

(d) Citing evidence from the map, identify *three* social services offered in the area covered by the map.   **(6 marks)**

(e) Explain *two* ways relief has influenced the distribution of settlement in the area covered by the map.   **(4 marks)**

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

        (ii)   Name *two* active volcanoes in Kenya.   **(2 marks)**

  (b) (i)   Differentiate between solfatara and moffete.   **(2 marks)**

      (ii)   Identify *two* areas in Kenya where geysers are found.   **(2 marks)**

(c)(i)   A part from batholiths, name *three* features resulting from intrusive vulcanicity.

(3 marks)

  (ii) With the aid of a diagram describe how a batholith is formed.   **(6 marks)**

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

8. (a) (i) What is weathering? (2 marks)

(ii) Give *three* factors influencing the rate of weathering (3 marks)

(b) Name *three* processes of slow mass wasting. (3 marks)

(c) (i) A part from block disintegration, list *four* other physical weathering

processes. (4 marks)

(ii) Describe how block disintegration occurs. (5 marks)

(d) Explain *four* significance of weathering to human activities. (8 marks)

9. (a) (i) Define the term **ocean** (2 marks)

(ii) Name *three* types of coasts (3 marks)

(b) (i) List *three* features that result from wave erosion (3 marks)

(ii) Describe the longshore drift. (3 marks)

(c) The diagram below shows coastal features resulting from wave

deposition
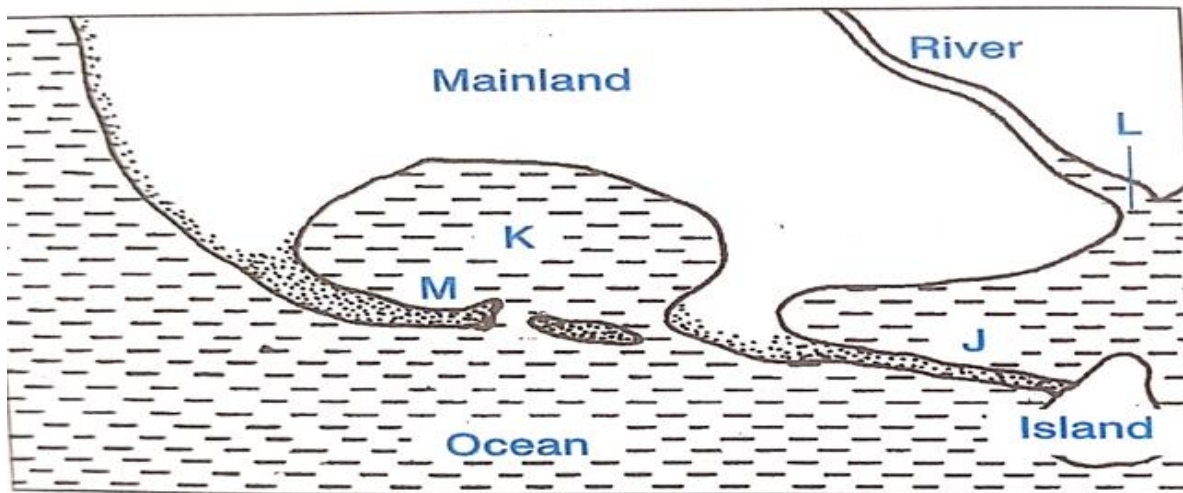
(i) Name the features marked **J, K** and **M.** (3 marks)

(ii) Describe how the feature marked **M** is formed (5 marks)

(iii) State *three* conditions that favor for the growth of coral polyps. (3 marks)

(c) State *three* significances of coastal features to human activities. (3 marks)

10. (a) **(i)** Differentiate between an ice sheet and an ice berg. **(2 marks)**

(**ii**) Name *three* types of glacial moraines. **(3 marks)**

(a) The diagram below shows features resulting from glaciation in a low land area.
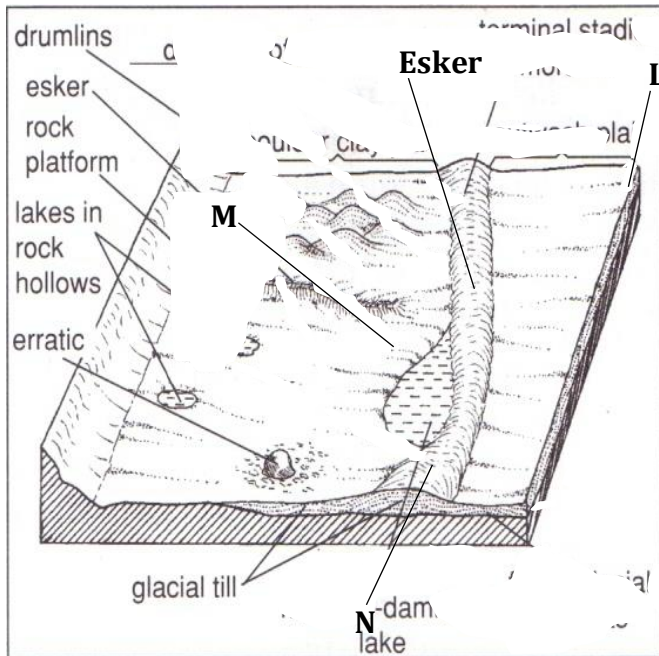
(**i**) Name the features marked **X, Y** and **Z.** **(3 marks)**

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

(c) Your class carried out a field study on glacial erosional features in a glacial lowland area.

(i)   Give **two** methods of collecting data you could use. **(2 marks)**

(ii)   State *three* importance of dividing into groups. **(3 marks)**

(d) Explain *four* economic significance of glaciation in lowland areas**. (8 marks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 8

312/2

GEOGRAPHY

PAPER 2
TIME: 2¾ HOURS

NAME...

SCHOOL.. SIGN..............................

INDEX NO.. ADM NO.........................

Kenya Certificate of Secondary Education.

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

SECTION A

Answer all questions in this section.

1. (a) State **three** importance of studying geography. **(3 marks)**

 (b) Explain the relationship between geography and demography. **(2 marks)**

2. Study the mining method shown below and answer the following questions

 (a) Identify the mining method **(1 mark)**

 (b) State the negative effects of the above method to the environment. **(4 marks)**

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

 (b) Give **three** characteristics of Jua kalI industries in Kenya. **(3 marks)**

4. (a) Define international trade. **(2 marks)**

 (b) Name **three** imports from Europe to Kenya. **(3 marks)**

5. (a) Name **two** rivers in the lowlands of western rift valley causing flooding. **(2 marks)**

 (b) State **three** methods used to control floods in Kenya. **(3 marks)**

SECTION B

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

6. The table below shows Kenya's leading imports by value. Use it to answer question (a). value in '000' million shillings.

Year	2013	2014	2015
Machinery	80	75	60
Petroleum	50	70	40
Fertilizers	30	40	45
Others.	45	30	25

(a) i) What was Kenya's total value of imports in the year 2015.   **(1 mark)**

ii) Describe the trend of Kenya's imports between 2013 to 2015.   **(3 marks)**

iii) Give **three** reasons why Kenya imports some agricultural produce yet she is a producer of the same commodities.   **(3 marks)**

iv) Draw a comparative bar graph to show Kenya's import by value between 2013 and 2015.

(7 marks)

(b) i) Name **two** counties to the East of Rift Valley where tea is grown.   **(2 marks)**

ii) State three physical conditions that influence the growing of tea in Kenya.   **(3 marks)**

(b) Describe the stages involved in the cultivation of tea from land preparation to harvesting.

(6 marks)

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

ii) Name two types of forests found in Kenya.   **(2 marks)**

iii) Give two examples of forest reserves in Kenya.   **(2 marks)**

(b) Explain three physical factors favoring the development of soft wood forests   in Kenya.

(6 marks).

(c) Compare soft wood forests in Kenya and Canada under the following.

* Growth.   **(2 marks)**

* Logging.   **(2 marks)**

* Forests products.   **(2 marks)**

(d) A Mokasa Geography class intended to carry out a field study in Mau forest in the Rift Valley.

i) Name the methods they would use to record data during the study.   **(4 marks)**

ii) State three problems they are likely to face during the study.   **(3 marks)**

8. (a) i. Define fisheries   **(2 marks)**

ii). State four ways in which marine fisheries in Kenya can be conserved.   **(4 marks)**

(b) i) What is fish farming.   **(2 marks)**

ii) State three ways in which fish farming contribute to the economy of Kenya. **(3 marks)**

(c). Use the map below to answer the following questions.
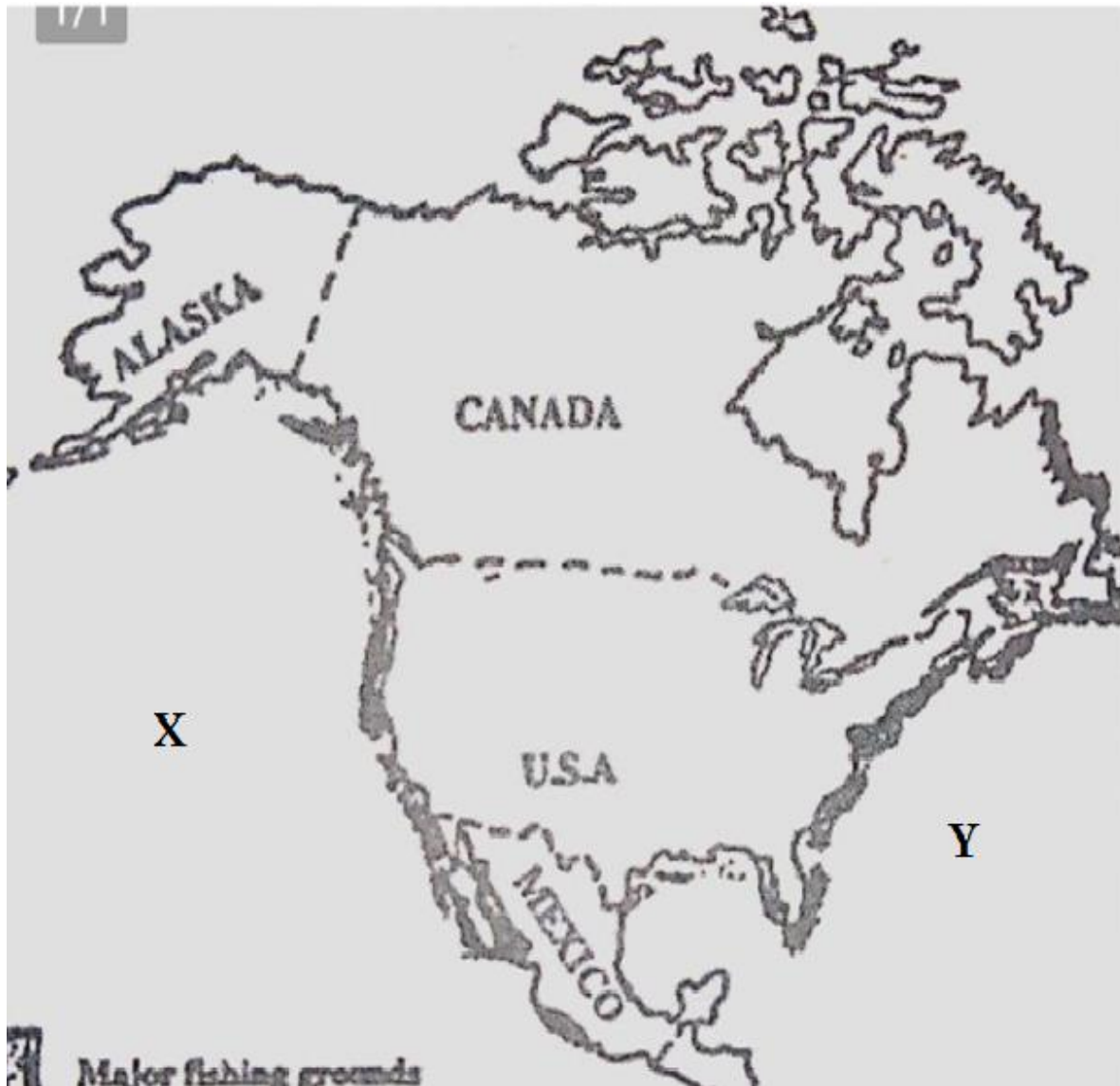
i)   Identify the following grounds marked X and Y   **(2 marks)**

ii)   Name four fish species caught along the fishing ground marked Y.   **(4 marks)**

iii)   Explain four physical factors favoring fishing in the region marked Y.   **(8 marks)**

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

    ii) Name three means used on land transport.   **(3 marks)**

    iii) Explain the following factors how they influence development of transport and communication.

- Technology   **(2 marks)**
- Urbanization.   **(2 marks)**

(**b**).The diagram below shows the major ports around Lake Victoria, use it to answer questions that follows.

i) Name the ports labelled P and Q. **(2 marks)**

ii) State four advantages of using containers at the port of Kisumu. **(4 marks)**

(c).i) Identify three canals along the St Lawrence and Great Lakes sea way in USA and Canada. **(3 marks)**

ii) Name four products transported along the sea way route. **(4 marks)**

iii) Explain how the following problems faced at the st Lawrence sea route were improved.

- Siltation. **(2 marks)**
- Freezing of water. **(2 marks)**

10. a) i) Define the term settlement. **(2 marks)**

ii) Give any two types of rural settlement patterns. **(2 marks)**

iii) Explain how the following factors influencing settlement.

- Drainage **(2 marks)**
- Vegetation. **(2 marks)**

b) Apart from central business district, name three other functional zones of urban Centre.
(3 marks)

c) State any three negative effects of urbanization. **(3 marks)**

d) Explain four factors that led to the growth of Eldoret town. **(8 marks)**

e) State three factors that contribute to the emergence of slums in urban centers. **(3 marks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 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) Write your name, admission number and class in the spaces provided above.
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FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAX SCORE	SCORE
A	1 – 5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A.

1. **a**) Define the following terms.
   i) Geography **(1mk)**
   ii) Habitat **(1mk)**

   b) Give **three** branches of geography. **(3mks)**

2. **a)** Name **two** elements of weather that can be recorded at a school station. **(2mks)**

   b) Give **three** reasons why the recording of data at a school station may be inaccurate. **(3mks)**

3. **a)** What is a hydrological cycle **(2mks)**

   b) State **three** factors that influence the amount of surface run-off. **(3mks)**

4. Use the diagram below to answer questions that follow.
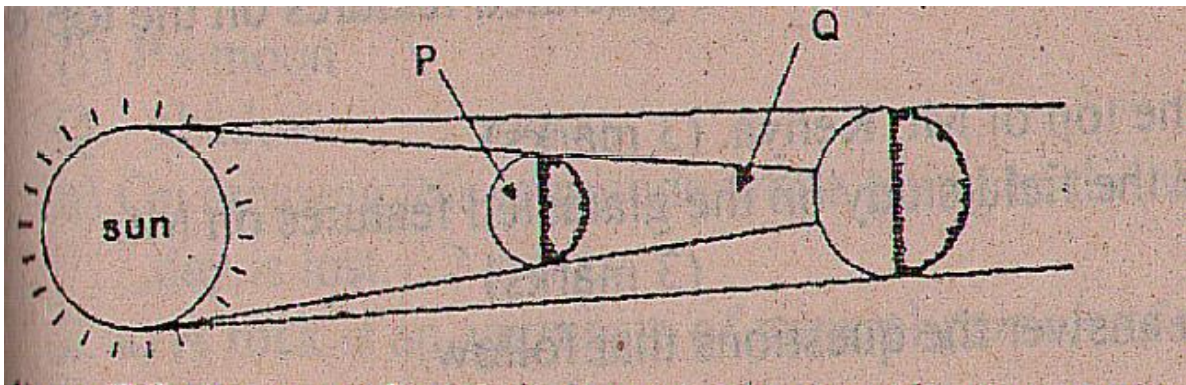
   i) What type of eclipse is represented by the diagram? **(1mk)**
   ii) Name the parts marked P and Q **(2mks**
   iii) what is the effect of the international date line on crossing the line? **(2mks)**

5. The diagram represents zones of natural vegetation on a mountain in Africa. Use it to answer
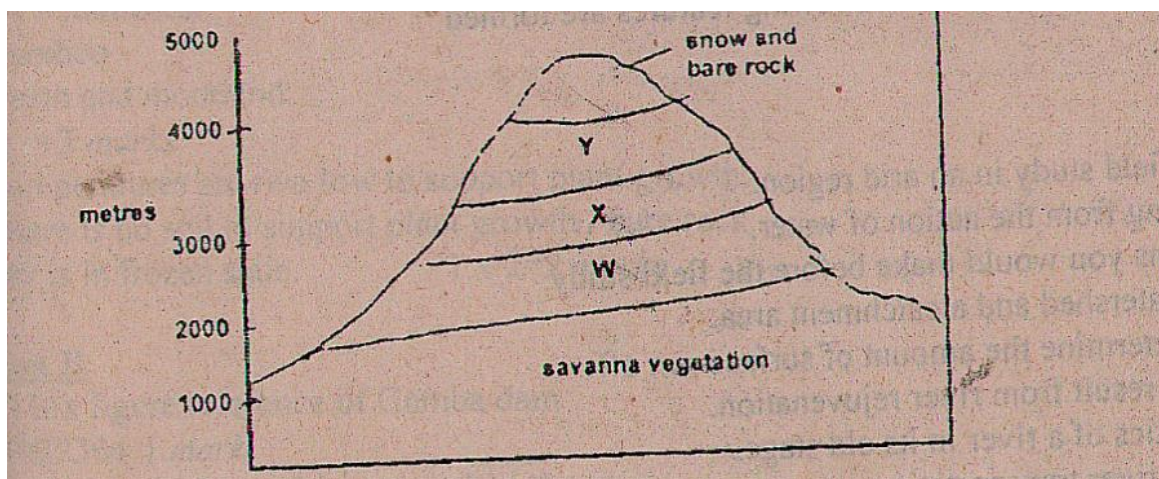
   Question (a)

a) Name the vegetation zones marked W, X, & Y.

b) Give **two** reasons why mountains tops have no vegetation

SECTION B

Answer Question Six And Any Other Two Questions .(75mks)

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 (km²)

     (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)** Define the term folding   **(2mk)**

   ii) State *three* factors that influence folding.   **(3mks)**

   b)i)Briefly describe the continental drift theory.   **(5mks)**

   ii) State **2** evidences supporting the above theory of continental drift.   **(2mks)**

   c)i) Using a well labelled diagram, explain how conventional currents theory may lead to formation of Fold Mountains.   **(6mks)**

ii) Highlight the significance of Fold Mountains to human activities.   **(5mks)**

iii) Give *two* theories that explain the formation of Fold Mountains apart from convectional currents theory.   **(2mks)**
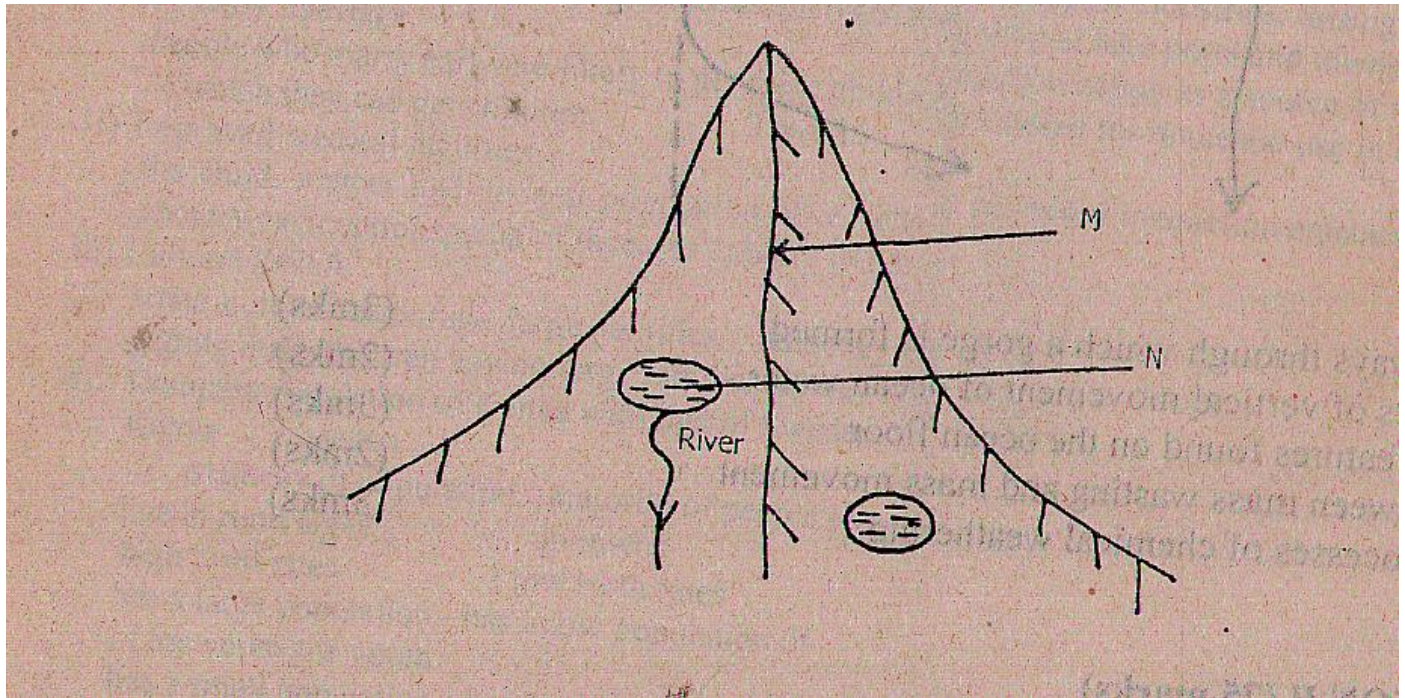
8. a) Define the following terms

i)Glaciation **(1mk)**

ii) Ice-berg **(1mk)**

b) Give _two_ reasons why there are no ice sheets in Kenya **(2mks)**

c) The diagram below shows a glaciated landscape use it to answer questions that follow.

i) Identify the feature labelled **M** and **N** **(2mks)**

ii) Name _two_ process through which **N** is formed. **(2mks)**

iii) Describe how feature marked **N** is formed. **(5mks)**

d) i) Name _two_ types of moraines. **(3mks)**

ii) Explain _two_ factors that determine the speed of ice movement. **(4mks)**

e) Students from a school near Mt. Kenya were planning to carry out afield study of the glaciated features on top of the mountain.

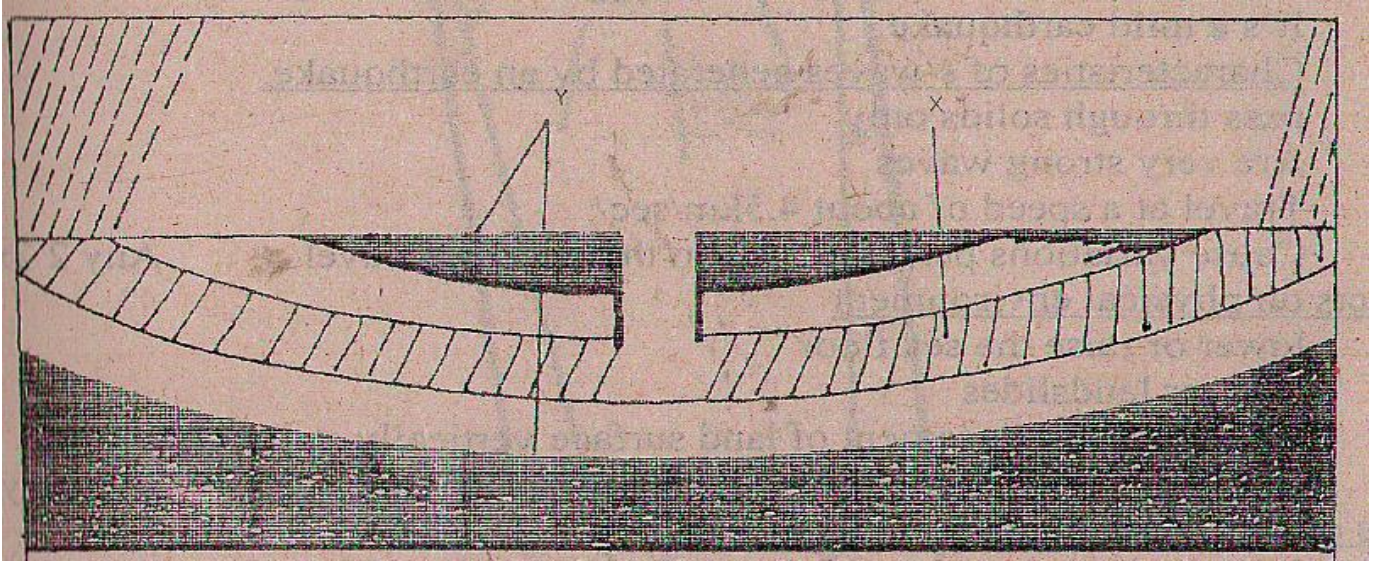**i)** State _two_ reasons why they needed a route map. **(2mks)**

ii) Give three challenges they would likely face during their field **study.** **(3mks)**

9. a)i) Define the term underground water. **(1mk)**

ii) Give _three_ sources of underground water. **(3mks)**

iii) Explain _3_ factors that influence the occurrence of underground water. **(6mks)**

b) The diagram below shows an artesian well.

i) Name the parts marked X and Y. **(2mks)**

ii) State **_four_** conditions necessary for the formation of artesian wells. **(4mks)**

iii) Explain **_two_** significance of underground water to human activities. **(4mks)**

c) You intend to carry out a field study in a Karst landscape.

i) Give **_two_** reasons why it is necessary to carry out a pre-visit before the study. **(2mks)**

ii) Give **_three_** follow –up activities that you were engaged in after the actual **study.** **(3mks)**

10. a) i) Name **_three_** factors that influence the formation of soil. **(3mks)**

ii)Name three processes of soil formation**.** **(3mks)**

b) Apart from texture, name other properties of soil. **(3mks)**

c) i) What is soil degeneration? **(2mks)**

ii) Explain **_three_** ways in which farming practices may lead to loss of soil **fertility.** **(6mks)**

iii) State how soil acidity is reduced. **(2mks)**

d) i) Draw a simple – labelled diagram of profile of a mature soil. **(4mks)**

ii) Distinguish between soil profile and soil catena. **(2mks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 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

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

SECTION A (25MKS)

Answer ALL the questions from this section

1. i) Mention **two** irrigation schemes established in Kisumu County with the aim of land rehabilitation

(2mks)

ii) What is a polder? **(1mk)**

iii) Name **three** crops grown in the polder **(3mks)**

2. i) Distinguish Horticulture and market gardening **(2mks)**

ii) State **three** problem facing horticultural farming in Kenya **(3mks)**

3. i) Define the term mining? **(2mks)**

ii) State any **three** negative effects of mining to the environment **(3mks)**

4. i) Give **two** indigenous soft wood trees grown in Kenya **(2mks)**

ii) State **three** problems facing forestry in Canada **(3mks)**

5. a) Name **three** types of fish **(2mks)**

b) State **three** problems facing fishing in JAPAN **(2mks)**

SECTION B

Answer question 6 and any other two questions

6. a) Study the information provided. Later answer the questions that follows

Crop production in Kenya between 1998 and 2002 in million bags.

Use a scale of 1cm represents 5 million bags

CROP/YEAR	1998	CT	1999	CT	2000	CT	2001	CT	2002	CT
Maize	27.30		25.00		25.00		30.00		26.00	
Beans	3.00		4.00		3.70		4.10		4.00	
Sorghum	0.90		1.20		0.90		1.20		0.80	
Millet	0.37		0.66		0.40		0.50		0.60	

- CT refers to the cumulative totals

i. Using a suitable scale, draw a cumulative bar graph based on data provided above. **(10mks)**

ii. Calculate the maize percentage decline in production between years 2001 and 2002. **(2mks)**

iii. What general conclusion can be made based on crop production between years 2000 and 2001

(2mks)

b) i) Apart from tsetse fly control mention five other methods used to reclaim land in Kenya **(5mks)**

ii) Explain any three control measures applied to eliminate tsetse flies in Kenya. **(6mks)**

7. a) i) Define wildlife **(2mks)**

ii) Distinguish between a game sanctuary and a game ranch **(4mks)**

iii) Study the following map of East Africa and answer the questions below.
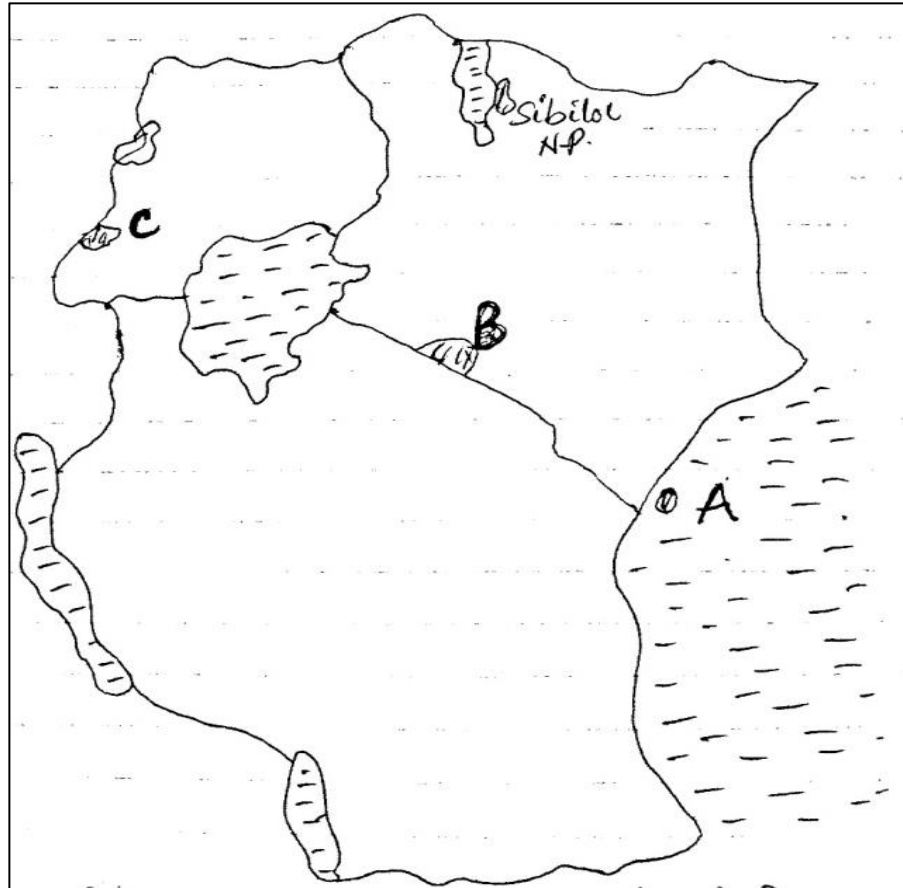
Name National parks marked A, B & c **(3mks)**

b) i) Explain four factors showing the future of tourism Industry in Kenya **(8mks)**

ii) Explain how the following factors influence wildlife

i.   Vegetation **(4mks)**

ii.   Altitude **(4mks)**

8. a) i) What is fishing **(2mks)**

ii) Name the two major fishing ground in the Pacific Ocean **(2mks)**

iii) Name four fresh water fisheries in Kenya **(4mks)**

b) i) Explain four reasons why Fresh water fishing is more popular than marine fishing in East Africa.
 (8mks)

ii) Describe trawling as a method of fishing **(7mks)**

iii) Distinguish phytoplankton and 200 planktons **(2mks)**

9. a) i) Name two main types of coffee grown in Kenya   **(2mks)**

ii) Identify two counties in Kenya where coffee is grown in large scale   **(2mks)**

b) i) State four factors favoring growing of coffee in Kenya   **(4mks)**

ii) Describe the stages of coffee processing once it's delivered to the factory   **(9mks)**

c) i) Explain two benefits of coffee farming in Kenya   **(4mks)**

ii)State four problems facing coffee farmers in Brazil   **(4mks)**

10. a) i) Give three by-products of crude oil   **(3mks)**

ii) List four ways through which occurrence of minerals is influenced.   **(4mks)**

b) Explain four contribution of mining Industry to economy   **(8mks)**

c) Name the minerals found in the following areas in East Africa   **(4mks)**

    i. Kariandusi

    ii. Kerio Valley

    iii. Kwale County

    iv. Lake Magadi

d)i) State four factors influencing mineral exploitation   **(4mks)**

ii) Give two uses of Gold   **(2mks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 10

312/1

GEOGRAPHY

PAPER 1
TIME: 2¾ HOURS

NAME**...**

SCHOOL**...**　SIGN**...............................**

INDEX NO**...**　ADM NO**..........................**

Kenya Certificate of Secondary Education.

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

SECTION A

1. The diagram below shows a type of an eclipse.
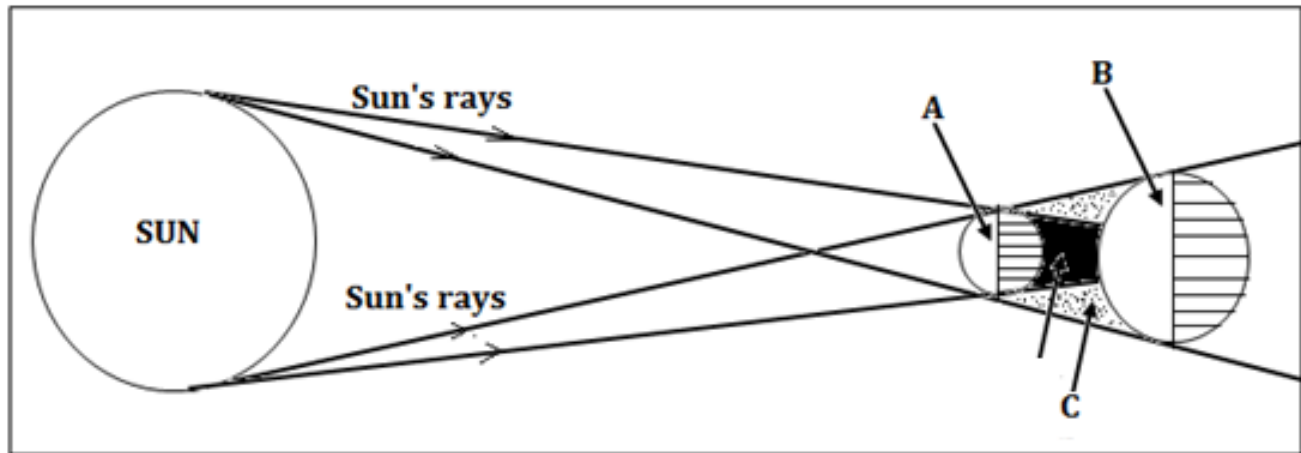
    (a) Name the parts marked A, B, and C.   **(3 marks)**

(b) Apart from the occurrence of eclipses, state **three** other effects of the movement of the earth

    round the sun.   **(3 marks)**

2.(a)   What are metamorphic rocks?   **(2 marks)**

    (b) Give **two** examples of organically formed sedimentary rocks.   **(2 marks)**

3.(a)   List **three** landmasses that formed from Gondwanaland according to continental

           drift theory.   **(3 marks)**

    (b) Give **two** types of tectonic plate boundaries.   **(2 marks)**

4.(a)   What is an earthquake?   **(2 marks)**

    (b) State **three** natural causes of earthquakes.   **(3 marks)**

**5.** The diagram below shows some features that form ocean relief.
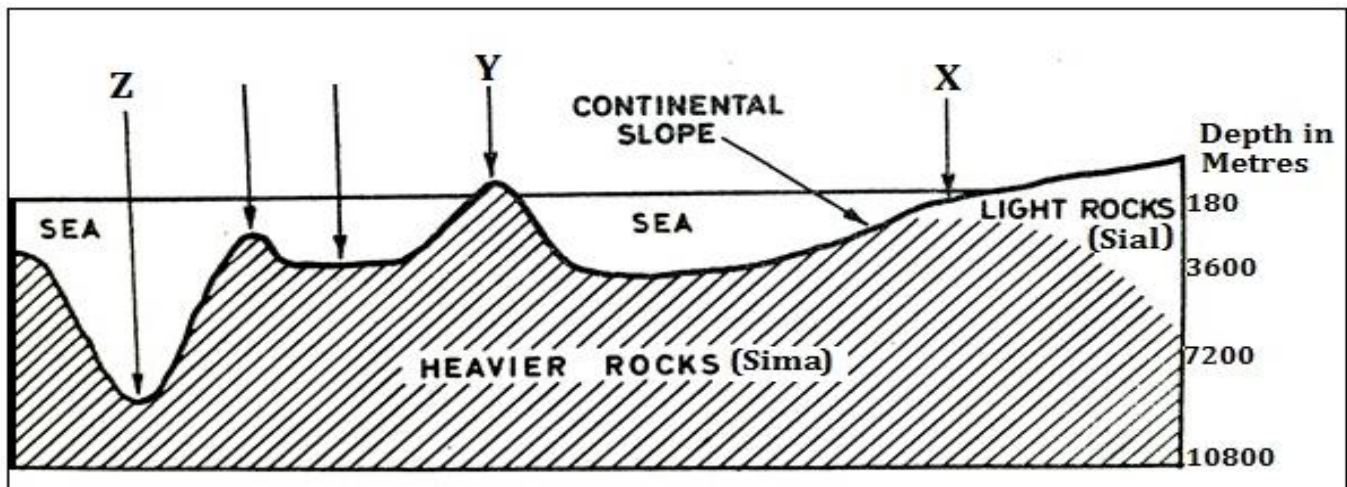
(a) Identify the features marked X, Y and Z.   **(3 marks)**

(b) List **two** main forms of horizontal movements of ocean water.   **(2 marks)**

SECTION B

*Answer question **6** and any other **TWO** questions in this section.*

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

(a)(i) Give the *six figure* grid reference of the forest Guard Post in Nyeri forest.   **(2 marks)**

  (ii)   Name the adjoining sheet to the south East of the map   **(1 marks)**

  (iii)   What is the general direction of the flow of river Chanya?   **(1 mark)**

(b) (i) Using a vertical scale of ***1cm*** to represents ***50m;*** draw a cross section
      along Northing 64 from Easting 68 to Easting 78. On it mark and label the   following.
➢ All weather road
➢ A hill.
➢ River Amboni (Honi).   **(8 marks)**
 (ii)   Calculate the vertical exaggeration of the cross section**.**   **(2 marks)**

   (iii) Determine the intervisibility of the cross section.   **(1 mark)**

(c) Describe the distribution of natural vegetation in the area covered by the map.   **(6 marks)**

(d)   Explain *two* ways relief has influenced the distribution of settlement in the area covered by

   the map.   **(4 marks)**

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

(ii) Give **three** types of rainfall.   **(3 marks)**

(b) Explain how the following factors affect the climate of a place:

(i) Cold ocean currents.   **(4 marks)**

(ii) Inter Tropical Convergence Zone.   **(2 marks)**

(c) With the aid of a well labelled diagram, describe how sea breeze occurs**.**   **(8 marks)**

(d) Suppose you were to carry out a field study at a weather station:

(i) Give **three** methods that they would use to collect data   **(3 marks)**

 (ii)   State **three** follow up activities for the field study.   **(3 marks)**

8. (a)(i) Define the term folding.   **(2 marks)**

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

(b) The world map below shows the distribution of some fold mountains. Use it to answer question (i)
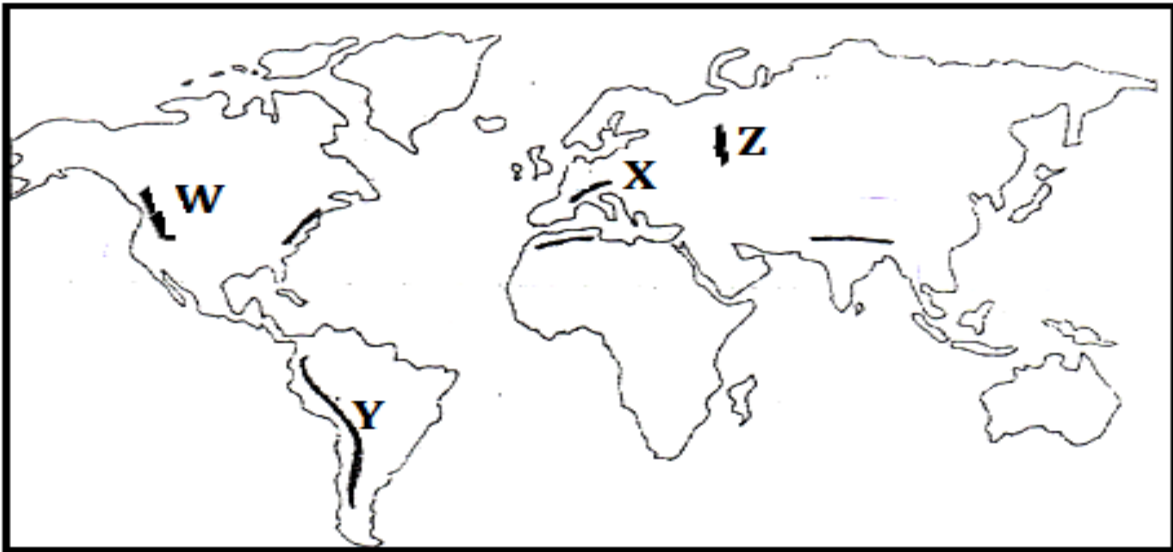
(i) Identify the fold mountains marked W, X, Y and Z **(4 marks)**

(ii) With the aid of well labelled diagrams, how Fold Mountains were formed. **(10 marks)**

(c) Explain **three** negative effects of Fold Mountains **(6 marks)**

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

(ii) State **five** characteristics of karst landscapes. **(5 marks)**

(b) Give **four** sources of ground water. **(4 marks)**

(c) Explain how the following factors influence the occurrence of ground water:

(i) Nature of rocks. **(2 marks)**

(ii) Slope of land. **(2 marks)**

(iii) Vegetation cover. **(2 marks)**

(d) Explain **four** conditions that favour the development of an artesian well.**(8 marks)**

10.(a)(i) What is glaciation? **(2 marks)**

(ii) Outline **four** factors which determine the rate at which ice moves**. (4 marks)**

(b) Apart from a cirque, name **four** other glacial erosional features. **(4 marks)**

(c) Using well-labelled diagrams, describe how a cirque is formed. **(8 marks)**

(d) Students of Nanyuki High School carried out a field study on glaciation on Mt.Kenya

(i) Give **three** reasons why they conducted a reconnaissance.   **(3 marks)**

(ii) State **two** factors they must have considered when selecting the data   collection methods.

(2 marks)

(iii)   Give **two** activities they may have been involved in during the study.   **(2 marks)**

KCSE CROSS-COUNTRY MOCKS

2023 SERIES 1 TRIAL 10

312/2

GEOGRAPHY

PAPER 2
TIME: 2¾ HOURS

NAME………………………………………………………………………………

SCHOOL………………………………………………… SIGN……………………

INDEX NO………………………………………… ADM NO……………………

Kenya Certificate of Secondary Education.

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

SECTION A

INSTRUCTIONS: Answer all the questions in this section

1. (a) State three ways in which minerals occur   **(3 mks)**

   (b) Name any two types of underground mining   **(2 mks)**

2. (a) What is a forest   **(1 mk)**

   (b) State any two characteristics of the tropical hardwood forests.   **(2 mks)**

   (c) State two main species of softwood trees mainly grown in Canada.   **(2 mks)**

3. (a) State one major characteristics of non-renewable energy sources.   **(1mk)**

   (b) Name any two non-renewable energy sources.   **(2mks)**

   (c) State any two effects of charcoal burning in the environment.   **(2mks)**

4. (a) What is a trading bloc.   **(2mks)**

   (b) State any three factors influencing trade.   **(3mks)**

5. (a) Name any two pre- historic sites that are popular with tourists in Kenya.   **(2mks)**

   (b) State the three agencies set up by the three governments of East Africa countries to manage the game parks and take care of the wildlife.   **(3mks)**

SECTION B

Answer question (6) compulsory and any other two questions.

6. The table below shows the population for the three district of Trans–Nzoia County.

DISTRICT	2008	2009	2010	2011
TRANS-NZOIA WEST	150	175	180	200
TRANS-NZOIA EAST	25	30	25	28
KWANZA	10	20	30	32

Note

Population in '000' people

(a)(i) Using the above information, construct a compound bar graph. Use a scale of 1cm Represent 25,000 people use the graph paper provided.   **(9mks)**

   (ii) Draw any two conclusions from the bar graph you have constructed   **(2mks)**

(b) Explain three factors causing internal migration in Kenya.   **(6mks)**

(c)(i) Explain three factors leading to slow population growth in some parts of East Africa.   **(6mks)**

   (ii) State any two importance of a high population in a country.   **(2mks)**

7. (a) **(i)**Name 2 major towns found in the oil palm growing areas in Nigeria.   **(2mks)**

   (ii) Explain four physical features favouring oil palm growing in Nigeria.   **(8mks)**

(b) Describe the steps involved in the processing of oil palm from the time is harvested.   **(8mks)**

(c) (i) State four problems facing oil palm farmers in Nigeria.   **(4mks)**

   (ii) List three uses of oil palm.   **(3mks)**

8. (a) **(i)**What are pelagic fish   **(1mk)**

   (ii) Give two examples of pelagic fish   **(2mks)**

   (b) The map below shows fishing grounds in East Africa. Use it to answer the questions that Follows
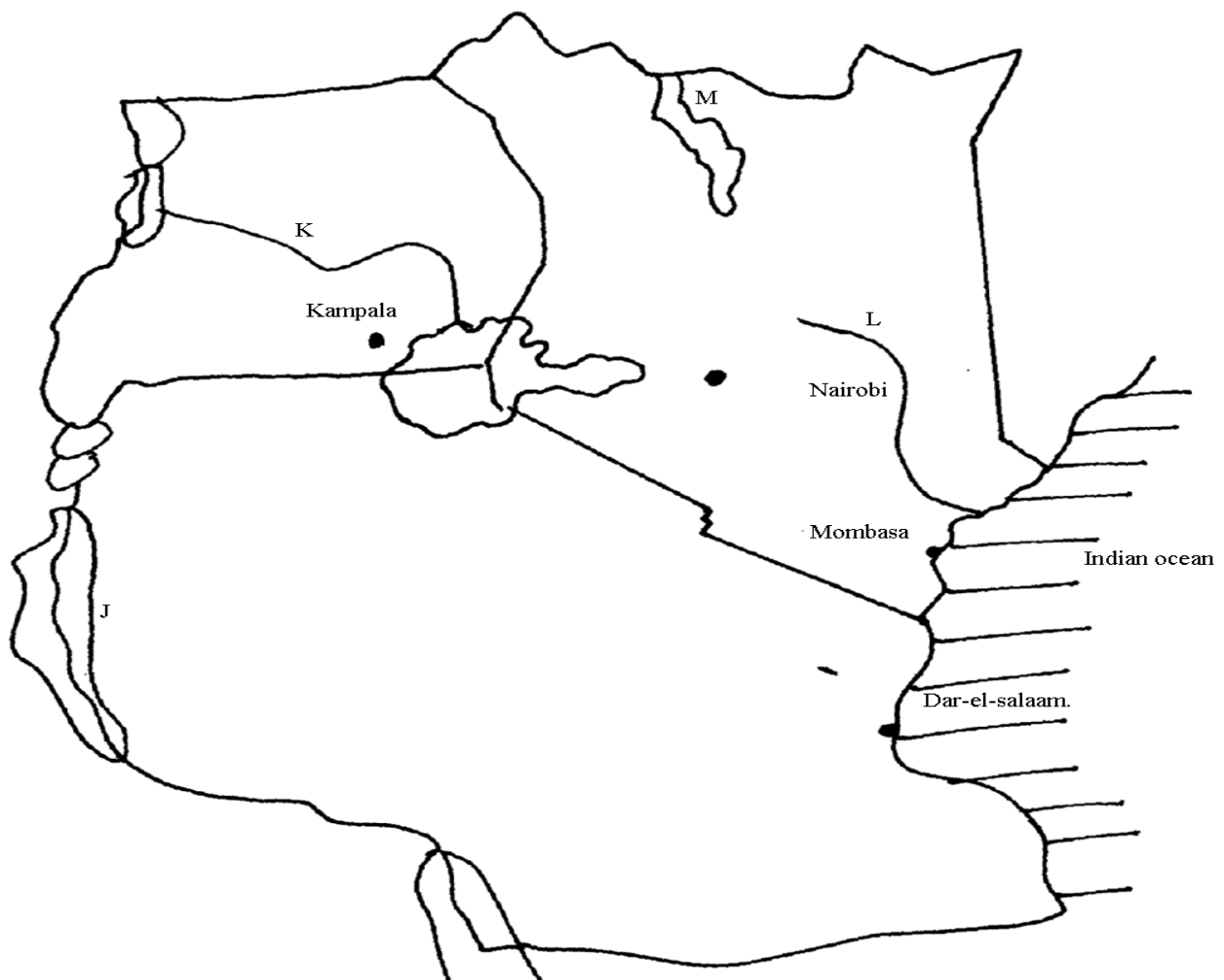
(i) Name the fishing grounds marked J, K, L and M. **(4mks)**

(ii) Explain the solutions to any <u>four</u> problems facing Inland fishing in East Africa. **(8mks)**

(c) Explain three factors why the Namibian Coast fishing ground is not well developed like other major fishing grounds in the world. **(6mks)**

(d) Compare fishing in Kenya and Japan under the following sub- headings.

     (i) Market. **(2mks)**

     (ii) Nature of landscape. **(2mks)**

9. (a) (i) Define land Rehabilitation **(2mks)**

     (ii) State four benefits of land Rehabilitation in Kenya **(4mks)**

(b) (i) Explain four factors that led to the successful establishment of Pekerra irrigation scheme

     (8mks)

     (ii) State three problems facing Pekerra irrigation s**cheme** **(3mks)**

(iii) List four main crops grown in Pekerra irrigation scheme **(4mks)**

(c) State four advantages of irrigation farming to the economy of **Kenya.** **(4mks)**

10.. (a) i) Differentiate between market gardening and floriculture. **2mks**

(ii) State four features of horticulture. **4mks**

i) State three physical factors that favour development of horticulture in Kenya. **3mks**

ii) Explain why horticulture is more developed in Netherlands than in Kenya. **8mks**

c) State and explain four contributions of horticulture to the economy of Kenya. **8mks**

THE END

FOR THE FOLLOWING;

- ➢ **ONLINE TUITION**
- ➢ **REVISION NOTES**
- ➢ **SCHEMES OF WORK**
- ➢ **SETBOOKS VIDEOS**
- ➢ **TERMLY EXAMS**
- ➢ **QUICK REVISION KITS**
- ➢ **KCSE TOPICALS**
- ➢ **KCSE PREMOCKS**
- ➢ **TOP SCHOOLS PREMOCKS**
- ➢ **JOINT PREMOCKS**
- ➢ **KCSE MOCKS**
- ➢ **TOP SCHOOLS MOCKS**
- ➢ **JOINT MOCKS**
- ➢ **KCSE POSTMOCKS**
- ➢ **TOP SCHOOLS PREDICTIONS**
- ➢ **KCSE PREDICTIONS**
- ➢ **KCSE REVEALED SETS**

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