

# **KCSE 2023 TOP SCHOOLS'**

## **GEOGRAPHY MOCKS**

**(KCSE MOCK TRIALS 1-10)**

*First Compilation of Recent Top Ten National Schools Mock Exams in  
Geography for our KCSE 2023 Candidates in Preparation of Final KCSE  
Examinations Scheduled for November 2023.*

***CONTAINS BOTH PAPER 1 & 2 EXAMS.***

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**SERIES 1**

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*For Marking Schemes*  
*Mr Isaboke 0746-222-000 / 0742-999-000*

**MWALIMU CONSULTANCY**

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION 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) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.**

**Answer all questions in this section.**

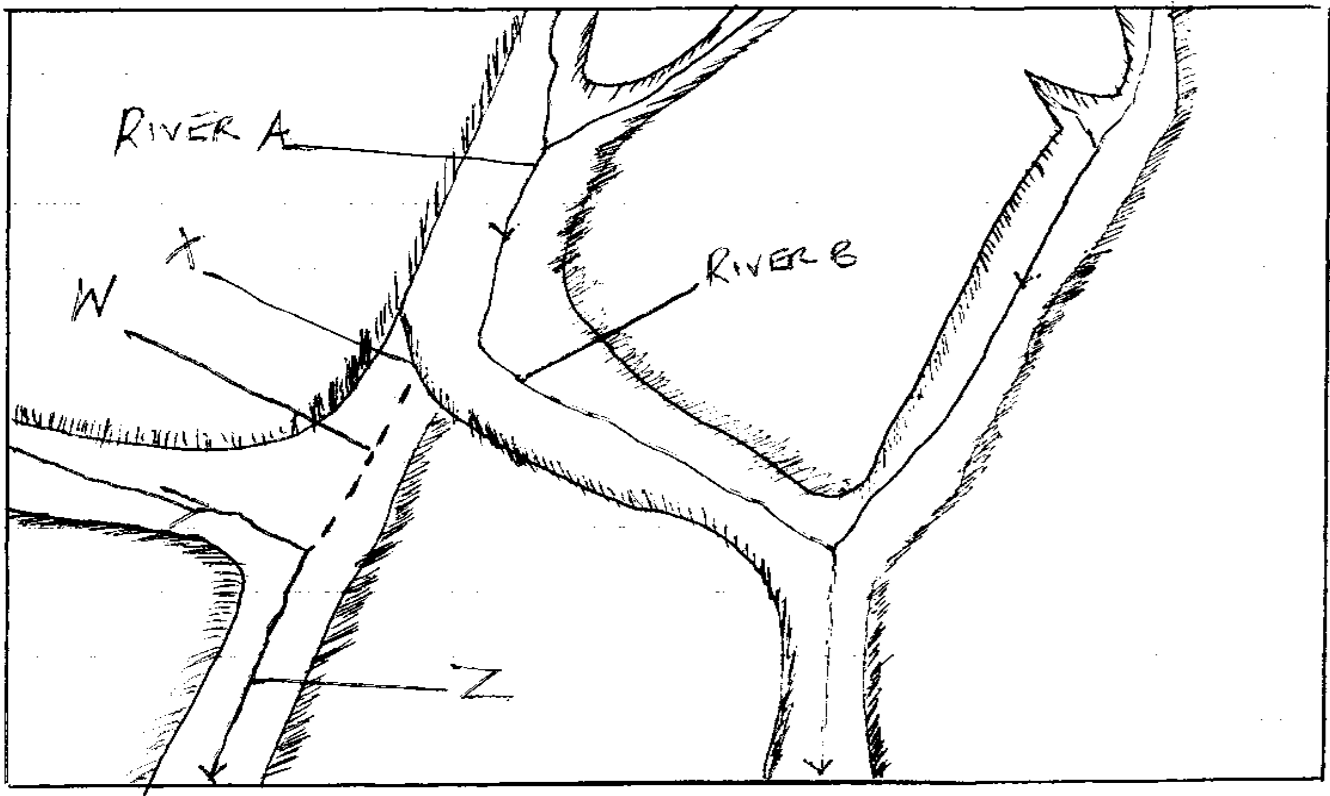
1. (a) Name **two** forces responsible for the shape of the earth (2mks)  
(b) Mention **three** effects of the rotation of the earth (3mks)
2. (a) State **two** types of igneous rocks (2mks)  
(b) Give **three** characteristics of sedimentary rocks (3mks)
3. (a) Differentiate between weathering and mass wasting (2mks)  
(b) State **three** causes of landslides (3mks)
4. a) Give three reasons why it is necessary to study the plate tectonic theory. (3 marks)  
b) Name two types of plate tectonic boundaries. (2 marks)
5. (a) Name two features that are formed on emerged highland coast (2mks)  
(b) State three conditions necessary for the formation of a spit (3mks)

**SECTION B**

**Answer question 6 compulsory and only other two from the remaining questions.**

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 mark)  
(iii) What is the general direction of the flow of river Chanya? (1 mark)
- (b) (i) Using a vertical scale of **1cm** to represent **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) Define continental drift  
(ii) Give two significance of plate tectonic boundaries (2mks)

- b (i)** Apart from tension forces, explain two other process that may cause faulting (4mks)
- (ii)** With the aid of well-labelled diagrams, describe the formation of Rift valley through tension forces (6mks)
- iii)** Mention four positive effect of faulting (4mks)
- c) You are planning to carry out a field study on the area affected by faulting
- i)** State two objectives for your study
- ii)** State three reasons why it is important to have a reconnaissance survey/pre-visit of the area (3mks)
- iii)** Give three follow-up activities you are likely to engage in (3mks)
- 
- 8. a i)** Define the term glaciation. (2 marks)
- ii)** Name three types of glaciers. (3 marks)
- b)** Describe how the following features found in upland glaciated landscape are formed.
- i)** U-shaped valley (5 marks)
- ii)** Pyramidal peak (5 marks)
- 
- c)** Explain three significances of upland glaciated features to human activities. (6 marks)
- 
- d)** Suppose you were to carry out a field study of glaciated lowland.
- i)** State two advantages of using oral interview to collect information during the field study (2 mks)
- ii)** Name two features found in glaciated lowland that you are likely to study. (2 marks)
- 
- 9.(a) (i)** Differentiate between watershed and catchment area (2mks)
- (ii)** Explain three ways by which a river transports its load (6mks)
- 
- (b)** Study the diagram given below and answer questions that follow



- i) Name the features marked X, W and Z (3mks)
- ii) Explain the process of river capture (3mks)
- c) Give three characteristics of a river in its youthful stage (3mks)
- d) Explain four economic importance of a river to human activities (8mks)

10 a, .Define aridity

- i. With an aid of a well labeled diagram describe how a rock pedestal is formed (5mks)

b,

- i. Give two process through which wind erodes the earth surface (2mks)
- ii. Give two wind depositional features found in the desert (2mks)
- iii. explain two ways through which plants causes weathering in arid and semi-arid areas 4mks
- c. i. Explain the causes of aridity and desertification (6mks)
- ii. State four measures that can control aridity and desertification (4mks)

***All the Best!***

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 1**

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 and index number in the spaces provided above.
- (b) Sign and write the date of the examination in the spaces provided above.
- (c) This paper consists of two sections; A and B.
- (d) Answer all the questions in section A and question 6 and any other two questions in section B.
- (e) Answer all the questions in English.

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



**SECTION A.**

**Answer all questions in this section.**

1. a) Give any two ways in which minerals occur. (2 marks)
- b) State three problems facing soda ash exploitation in Magadi. (3 marks)
2. a) Define the term agroforestry. (2 marks)
- b) State three reasons why agroforestry is being encouraged in Kenya. (3 marks)
- 3.a) Apart from land pollution name **two** other types of environmental hazards (2mks)
- b) State **three** ways through which land pollution can be controlled. (3mks)
- 4.(a) Apart from a telephone, state **two** other forms of communication (2mks)
- (b) Mention three problems facing railway transport in Africa (3mks)
5. a) Apart from the common market for Eastern and southern Africa (**COMESA**) identify two other trading blocks in Africa. (2mks)
- b) Give three benefits of COMESA to member states. (3mks)

**SECTION B.**

**Answer question 6 compulsory and only other two questions from the remaining questions.**

6. Study the photograph below and answer questions that follow



- a) (i) Identify the type of photograph shown above (1mk)  
(ii) Draw a rectangle measuring 15cm by 10cm to represent the area covered by the photograph  
(i) Identify the type of photograph shown above (1mk)  
(ii) Draw a rectangle measuring 15cm by 10cm to represent the area covered by the photograph (1mk)  
(iii) On the rectangle, sketch and label four main features (4mks)
- a) (i) Which type of farming is shown on the photograph (1mk)  
(ii) Give three physical conditions favouring tea farming in Kenya (3mks)  
(iii) Describe the stages of tea processing (5mks)
- b) (i) State two areas in Kenya where maize is grown on large – scale (2mks)  
(ii) Explain four problems facing maize farmers in Kenya (8mks)
- 7.a) i) Identify two types of open cast mining . (2mks)  
ii) Describe the stages involved in deep- shaft mining (6mks)  
b) State three negative effects of mining on the environment (3mks)  
c) Give two reasons why Kenya import her oil in crude form (2mks)  
d) Explain four ways in which mining contribute to the to the economy of Kenya (8mks)  
e) Explain how the following factors influence exploitations of minerals (2mks)  
i)) Technology  
ii) Quality of the one
8. a) Define the term global warming. (2 marks)  
b) Distinguish between environmental conservation and environment management. (2 marks)  
c) State four reasons why Kenya should conserve her environment. (4 marks)  
d) Explain four effects of land pollution to the environment. (8 marks)  
e) Briefly explain the main reasons for the following environmental acts in the law of Kenya.  
i) The factories act (2 marks)  
ii) The water act (2 marks)  
f) Your class intends to carry out a field study on environmental water pollution in the locality.  
i) State one possible objective for the study. (1 mark)

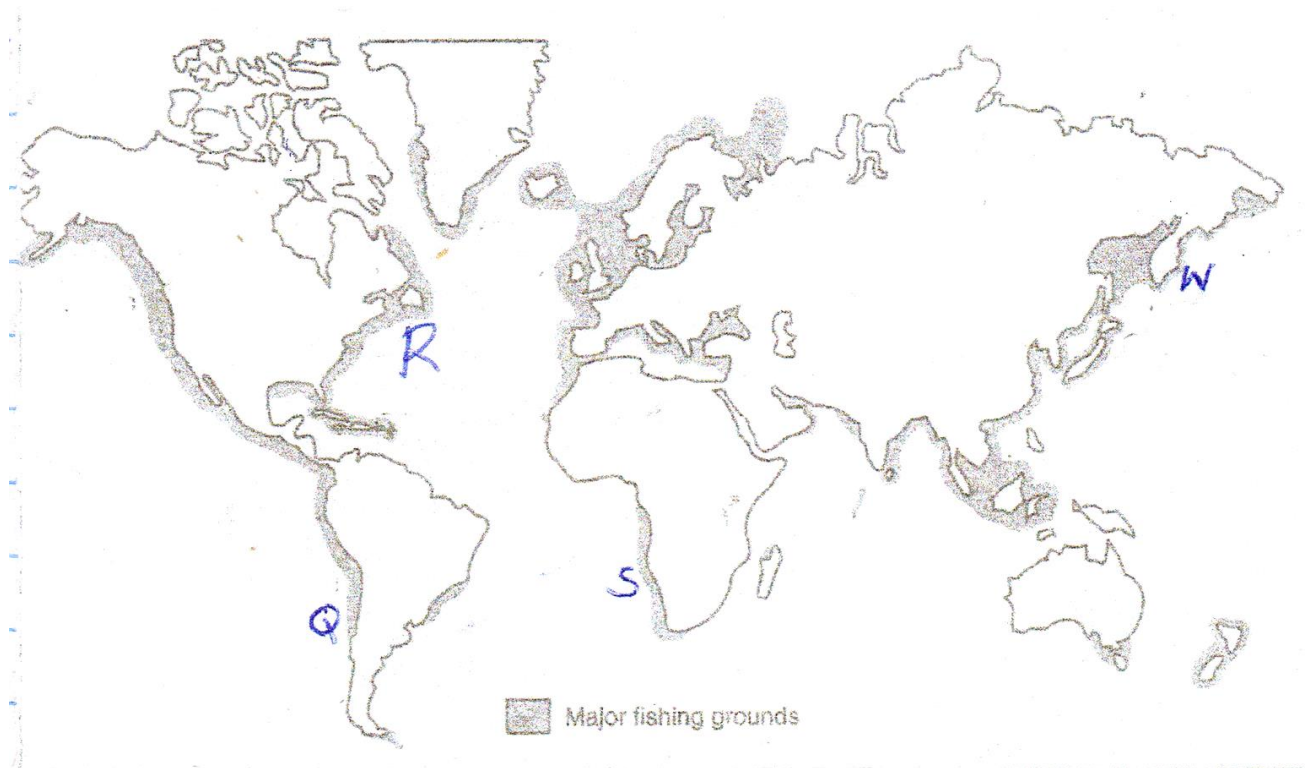


- ii) Give two reasons why you need to conduct a reconnaissance. (2 marks)
- iii) Suggest any two ways to control the environmental problem under study. (2 marks)

9.

- a) i) Differentiate between population and demography (2mks)
- ii) State two types of migration (2mks)
- iii) State three causes of rural- rural migration (3mks)
- b) Explain how the following factors led to the population increase in Kenya
- i) Migration (2mks)
- ii) Improved medical care (2mks)
- iii) Cultural beliefs and traditions (2mks)
- c) Explain three problems which result from high population growth rate in Kenya (6mks)
- d) Explain three ways in which the population of Kenya differs from that of Sweden (6mks)

10. Study the world map shown below and answer questions that follow.



- (a) (i) Identify the fishing grounds marked Q, S and W (3mks)
- (a) (i) Identify the fishing grounds marked Q, S and W (3mks)

- (ii) Explain three physical conditions favouring fishing activities in the area marked R (6mks)
- (b) (i) Give two methods of fish preservation (2mks)
- (ii) Describe trawling fishing methods (5mks)
- (c) (i) Give three reasons why the government of Kenya encourages fish farming (3mks)
- (ii) Explain three human factors that make Japan to be a leading fishing nation in the world (6mks)

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 2**

312/1

**GEOGRAPHY****PAPER 1**

TIME: 2¾ HOURS

NAME.....

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

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

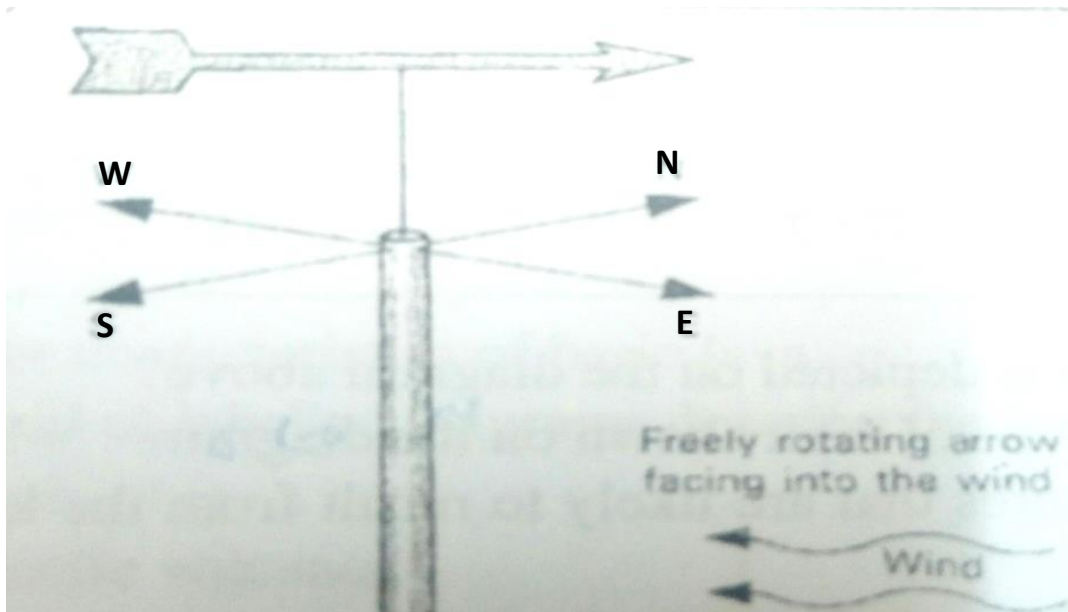
*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

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- (e) Answer all the questions in English.

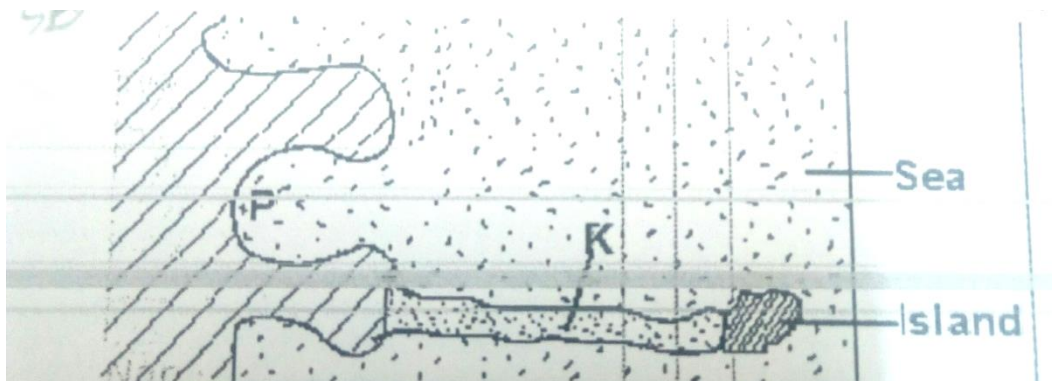
SECTION	QUESTIONS	MAXIMUM SCORE	SCORE
A	1-5	25	
B	6	25	
		25	
		25	
	TOTAL SCORE		

**SECTION A.****Answer all questions in this section.**

1. a) What is geography? (2marks)
- (b) Name the **two** types of environment. (2marks)
2. Give **three** proofs that the earth is almost spherical in shape. (3marks)
3. Use the diagram below to answer questions (a) below.



- a.(i) Name the weather measuring instrument shown in the diagram. (2marks)
- (ii) State the element of weather measured by the instrument named in a. (i) above. (2marks)
- (iii) From the diagram, which direction is the wind blowing. (2marks)
- b. Differentiate between absolute humidity and relative humidity. (2marks)
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 from this section.**

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

- a) i) Give the four figure grid reference of Obwolo school. (1mk)
- ii) What is the approximate height of point 000960? (1mk)
- iii) Name two physical features found at grid square 0384. (2mks)
- iv) Name two types of natural vegetation in the area covered by the map (2mks)
- b) Calculate the area of the Kisumu municipality. Give your answer in square kilometers (km<sup>2</sup>) (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) Name three** types of faults. (3marks)

(ii) Apart from compressional forces, describe **two** other processes that may cause faulting.

(4 marks)

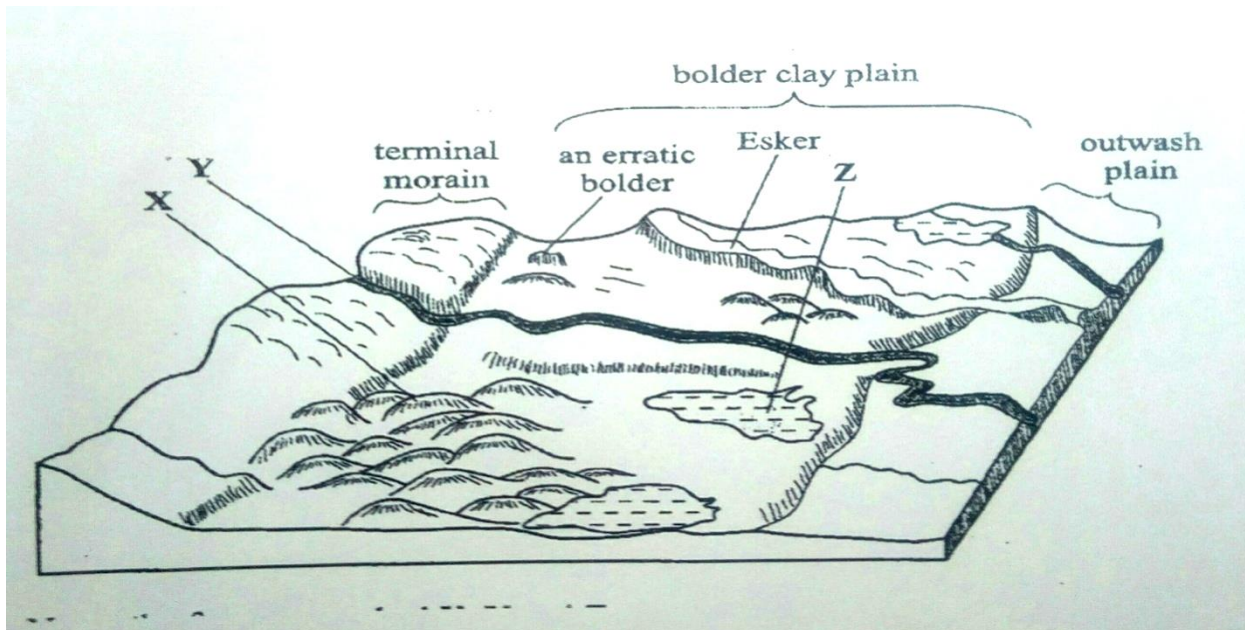
**b.** With the aid of diagrams, describe how compressional forces may have led to the formation of the Great Rift Valley. (8marks)

**c.** Explain **five** effects of faulting on human activities. (10 marks)



- 8.a. (i) Define the term Aridity. (2marks)
- (ii) State **three** factors that makes wind an effective agent of erosion and deposition in the hot deserts. (3 marks)
- (b) Describe how a rock pedestal is formed. (5 marks)
- (c) **Explain four** significance of desert features to human activities. (8 marks)
- (d) A group of form **four** students went out for a field study on action of water in an arid area.
- (i) Give **three** methods of data collection they may have used. (3 marks)
- (ii) State **four** problems they have encountered during the field study. (4marks)

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



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

10. a) What is soil catena? (2 marks)
- ii) Draw a well labeled diagram showing the structure of a well-developed soil profile. (5 marks)
- b) Differentiate between mineralization and humification in soil formation. (2 marks)

- c) State **three** factors that determine the color of soil. (3 marks)
- d) (i) State **four** factors that influence soil formation. (4 marks)
- (ii) Explain how the following farming practices can cause soil degradation:
- Burning. (2 marks)
  - Continuous application of fertilizer on farm land. (2 marks)
  - Monoculture. (2 marks)
- iii) State **three** uses of soil. (3 marks)

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 2**

312/2

**GEOGRAPHY****PAPER 2**

TIME: 2¾ HOURS

NAME.....

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

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

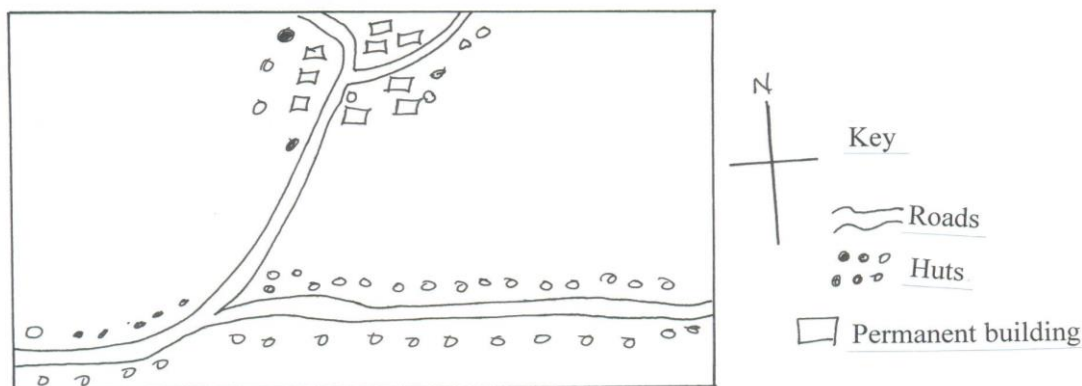
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SECTION	QUESTIONS	MAXIMUM SCORE	SCORE
A	1-5	25	
B	6	25	
		25	
		25	
	TOTAL SCORE		

**SECTION A.****Answer all questions in this section.**

1. (a) Define eco-tourism. (2mks)
- (b) State three benefits of eco-tourism. (3mks)
2. (a) Name **two** counties in Kenya where wheat is grown in large scale. (2mks)
- (b) List **three** problems facing wheat farmers in Kenya. (3mks)
3. (a) (i) Give **two** types of domestic trade. (2mks)
- (b) State **three** factors influencing internal trade in Kenya. (3mks)
4. (a) Differentiate between environmental management and environmental conservation. (2mks)
- (b) Give **three** natural environmental hazards you know. (3mks)
- 5(a) Study the sketch map below and answer the questions that follow



- Identify **two** settlement patterns represented by the sketch map. (2mks)
- (b) State **three** causes of rural to rural migration. (3mks)
- 6(a) The table below shows East Africa's milk production in '000' litres from 1998 – 2001

Country /Year	1998	1999	2000	2001
Kenya	30	41	36	25
Uganda	20	25	27	29
Tanzania	52	60	65	70

- (i) Draw a compound bar graph to represent the above data. Use a vertical scale of 1cm represents 10,000 litres. (7mks)
- (ii) State **two** limitations of compound bar graph in representing data. (2mks)
- (b) (i) Name **three** counties in Kenya where dairy farming is practiced in large scale. (3mks)
- (ii) State **four** similarities between dairy farming in Kenya and Denmark. (4mks)
- (c)(i) Mention **three** types of dairy animals reared in Kenya. (3mks)

(ii) Explain **three human** factors favoring dairying in Denmark. (6mks)

7.(a) (i) Distinguish between transport and communication. (2mk)

(ii) Explain how construction of transport networks is affected by the following factors.

- Relief (2mks)

-Economic factors. (2mks)

(b) (i) State **four** factors that hinder the development of air transport in Africa. (4mks)

(ii) Name **two** canals that are found in Africa. (2mk)

(c) State **five** recent development that have taken place in Kenya to improve communication.(5mks)

(d) Explain **four** ways in which transport and communication has improved economic development in Africa. (8mks)

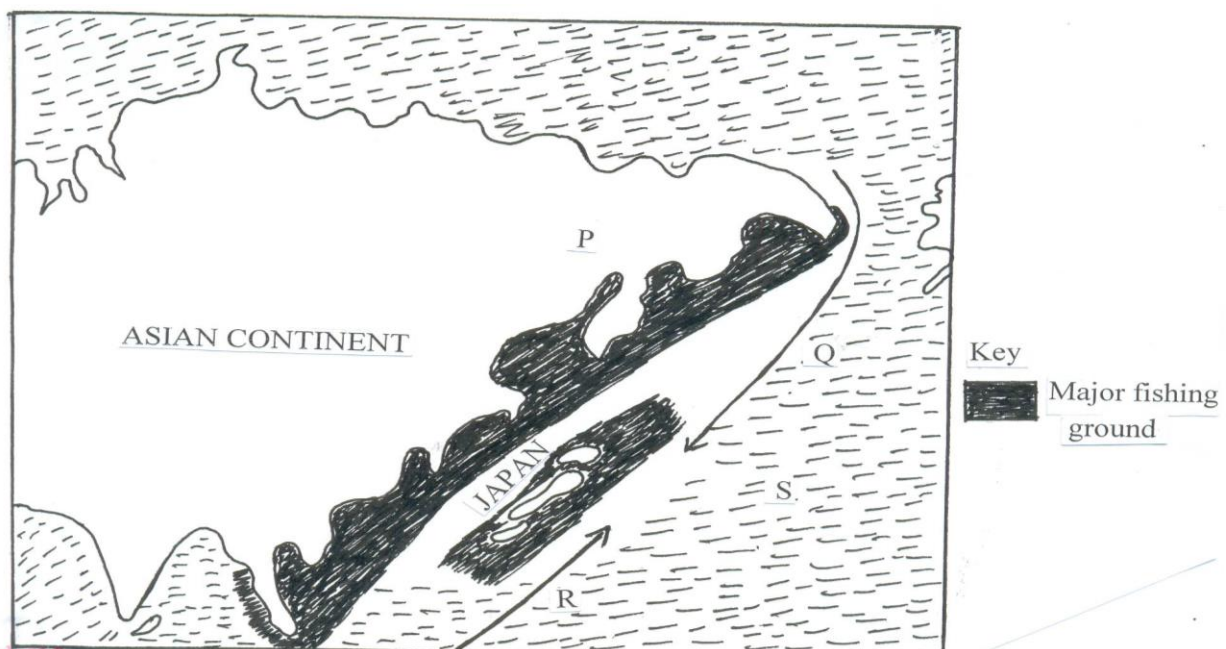
8.(a) (i) What is fishing? (2mks)

(ii) Explain **three** ways in which the nature of coastline affects fishing. (6mks)

(b) (i) State **three** types of fishing carried out in Kenya. (3mks)

(ii) Describe seining as a modern method of fishing. (3 mks)

(c)The map below shows the fishing ground East of the Asian Continent. Use it to answer the questions that follow.



(i) Give the name given to the major fishing ground shown on the map. (1mk)



- (ii) Identify the ocean currents marked **Q** and **R**. (2mks)
- (iii) Explain **four** factors that have favored fishing in the ground mentioned in (i) above. (8mks)

- 9(a) (i) Apart from those in East Africa, name **four** large scale H.E.P projects in Africa (4mks)
- (ii) Other than water, give **three** other sources of renewable energy. (3mks)
- (b) Explain **four** factors that have hindered full development of H.E.P production in Kenya (8mks)
- (c) Mention **four** areas in Kenya with high potential for Geothermal power. (4mks)
- (d) A form four class in Machakos county is planning a field study to Gitaru H.E.P. dam.
- (i) State **three** reasons why they need to inform the school authority. (3mks)
- (ii) Give **three** follow-up activities they engaged in school after the study. (3mks)

10. (a) i) What is industrialization? (2 mks)
- ii) Explain **three** reasons why some industries consider regular supply of water as the main reason for their location. (6 mks)
- (b) Outline **four** similarities between Jua Kali industry in Kenya and cottage industry in India. (4 mks)
- (c) Explain **three** factors that have influenced the location of iron and steel industry in the Ruhr region of Germany in the 19<sup>th</sup> century. (6 mks)
- (d) You intend to carry out a field study in Thika industrial area.
- i) State **four** effects of the industries on the environment you are likely to observe. (4mks)
- ii) State **three** reasons why it is important to prepare a working schedule for the study. (3mks)

*All the Best!*

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 3**

312/1

**GEOGRAPHY****PAPER 1**

TIME: 2¾ HOURS

NAME.....

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

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

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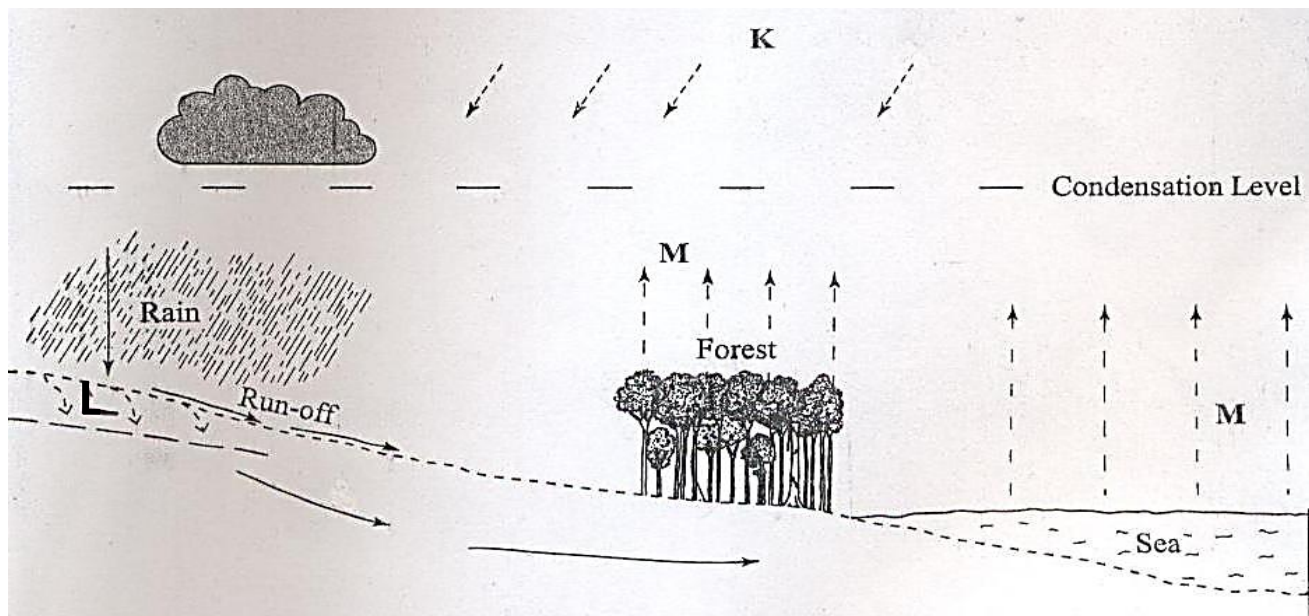
SECTION	QUESTIONS	MAXIMUM SCORE	SCORE
A	1-5	25	
B	6	25	
		25	
		25	
	TOTAL SCORE		

**SECTION A.**

**Answer all questions in this section.**

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

1. Describe the formation of planet earth according to the passing star theory. (5 marks)
2. (a) Give **two** examples of sedimentary rocks. (2 marks)
- (b) State **three** characteristics of sedimentary rocks. (3 marks)
3. (a) Differentiate between weathering and mass wasting. (2 marks)
- (b) State **three** causes of landslides. (3 marks)
4. (a) The diagram below shows the hydrological cycle. Study and use it to answer the question that follows.



- (a) Identify the processes marked **K** and **L**. (2 marks)
- (b) State **three** characteristics of a flood plain. (3 marks)
5. (a) State **two** reasons why wind erosion is dominant in arid areas. (2 marks)
- (b) Describe how a Bajada is formed. (3 marks)

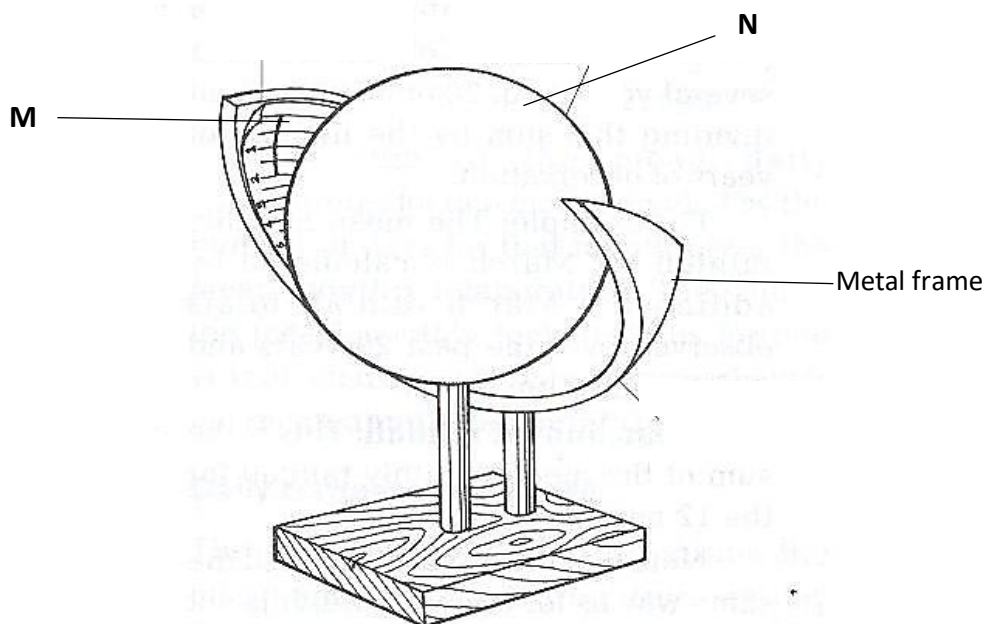
**SECTION B**

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

- 6) Study the map of **Nyeri 1:50,000** (sheet 120/4) provided and answer the following questions.
  - a) i) What is the longitudinal extent of the map extract? (2marks)
  - ii) Give the **Four** figure grid reference of the labour camp near Mweiga estate (2marks)

- iii) Identify **two** districts in the area covered by the map. (2marks)
- b) i) **Give** two methods used to represent relief on the map (2marks)
- ii) **State** three problems that maybe encountered during the construction of roads in the area covered by the map (3marks)
- c) **Citing** evidence from the map, give three reasons why cattle rearing is widespread in Nyeri area. (6marks)
- d) i) Apart from administration, give three other services provided in the area covered by Nyeri map
- ii) Describe the distribution of settlement in the area covered by the map (4marks).
- iii) Give two factors that favour coffee growing in Nyeri Map (2marks)

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	<b>J</b>	<b>F</b>	<b>M</b>	<b>A</b>	<b>M</b>	<b>J</b>	<b>J</b>	<b>A</b>	<b>S</b>	<b>O</b>	<b>N</b>	<b>D</b>
Temp in °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) (i) Distinguish between a fault and a fold. (2 marks)
- (ii) Give **three** factors that influence folding. (3 marks)
- (b) Describe how isostatic adjustment cause earth movement. (5 marks)
- (c) Describe how plate tectonic movements cause fold mountain formation. (5 marks)
- (d) (i) Name **two** features resulting from faulting. (2 marks)
- (ii) Explain how faulting influences drainage of an area. (8 marks)
9. (a) Distinguish between soil profile and soil catena. (2 marks)
- (b) Explain how the following factors influence soil formation:
- (i) The parent rock (4 marks)
- (ii) Relief (2 marks)
- (c) Describe laterization process of leaching. (4 marks)
- (d) State **three** importance of soil structure. (3 marks)
- (e) Give **two** characteristics of Azonal soils. (2 marks)
- (f) Explain **four** causes of physical soil degeneration. (8 marks)



- 10.**     **(a)(i)** Define the term Moraine. **(2 marks)**
- (ii)** State **three** conditions necessary for the formation of ice. **(3 marks)**
- (b)** Describe how ice moves through the following:-
- (i)** Basal slip **(3 marks)**
- (ii)** Extrusion flow **(3 marks)**
- (c)** Describe how an arete is formed. **(6 marks)**
- (d)** Explain the **four** Significance of lowland glaciated features to human activities. **(8 marks)**

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 3**

312/2

**GEOGRAPHY****PAPER 2**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

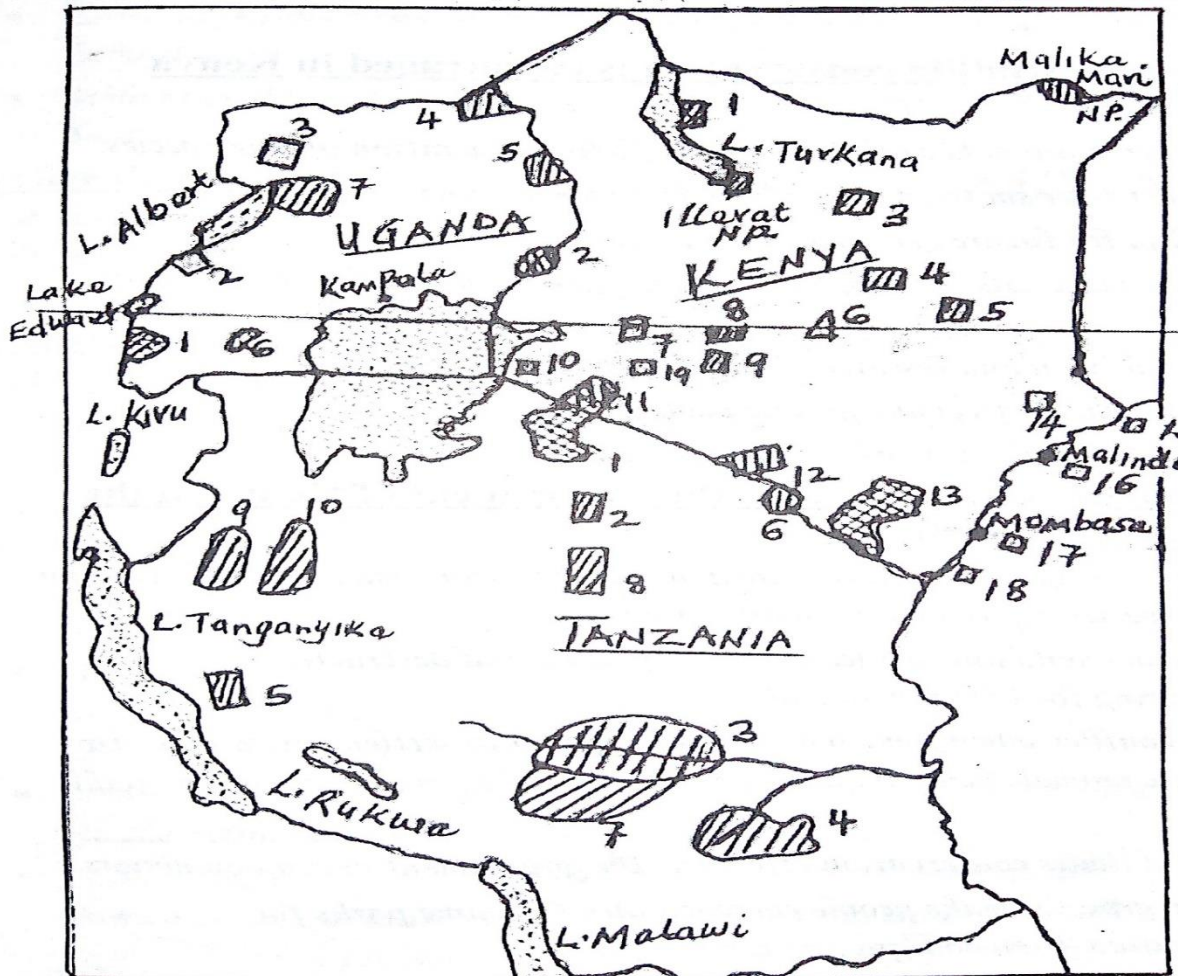
- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.**

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

1. a). Define mining. (2marks)
- b). State **three** factors influencing the occurrence of minerals. (3marks)
2. a). State **three** advantages of Hydro-electric power in Kenya. (3marks)
- b). Give **two** measures of conservation energy. (2marks)
3. (a) Study the map below of East Africa and use it to answer questions.



Name \_\_\_\_\_

- (i). The National Park marked 2. (1mk)
- (ii). The Game Reserve marked 4. (1mk)
- (iii). The game sanctuary marked 7. (1mk)
- (b) State **three** reasons why Switzerland receives more tourists than Kenya. (3marks)
4. Identify **four** factors which have contributed to the growth of Mombasa as an international port. (4marks)

5. Outline the stages of reclamation of land from the sea in the Netherlands through the Zuider Zee project. (5marks)

### SECTION B

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

6. (a). The table below shows maize production in Kenya per county; between 2017 – 2018 in `000 kgs.

County \ Year	2017	2018
Trans – Nzoia	33,055	34,065
Uasin – Gishu	27,060	30,040
Nakuru	12,022	14,145
Bomet	11,336	10,272
Narok	10,678	12,128
<b>TOTAL</b>	<b>83,352</b>	<b>100,650</b>

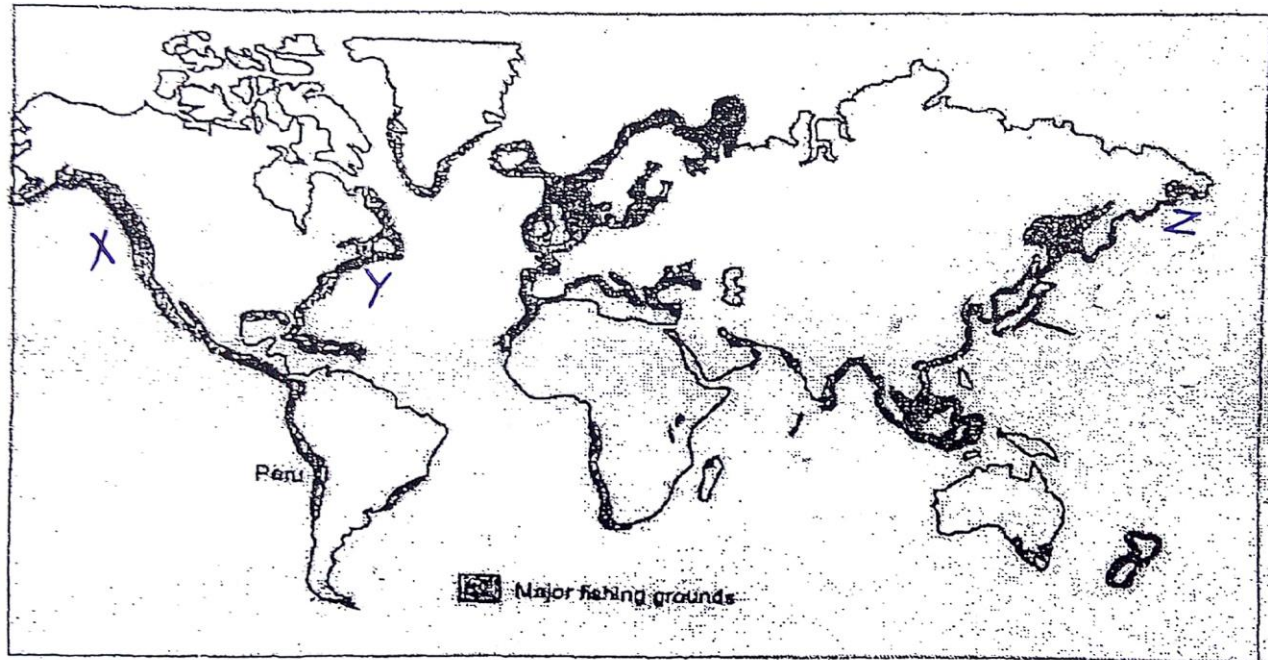
- (i). Using a scale of **1cm to represent 10 million kgs**, draw a divided rectangle to represent the data for maize production in 2018. (6marks)
- (ii). Describe the production of maize in the 5 counties in Kenya. (4marks)
- (iii). State **three** disadvantage of using a divided rectangle to represent the above data. (3marks)
- (b). State **three** physical conditions that favour maize growing in Kenya. (3marks)
- (c). Give **three** problems facing maize farmers in Kenya. (3marks)
- (d). Explain **three** ways in which the government of Kenya can assist maize farmers in Kenya. (6marks)
7. (a) State **four** physical factors that favored the establishment of Ruhr Industrial region in Germany. (4marks)
- (b). Explain **four** problems arising from industrialization in Kenya. (8marks)
- (c). State **five** characteristics of cottage industry in India. (5marks)

(d). Form **four** students in your school carried a field study on Thika town.

(i). Give **four** factors that led to growth of Thika as an industrial centre. (4marks)

(ii). Give **four** advantages of studying industry through field work. (4marks)

8. Study the map of the world below and use it to answer question (a) (i)



(a). (i). Name the fishing grounds marked. (3marks)

X -

Y -

Z -

(ii). Explain **three** physical factors influencing fishing in the region marked X on the map. (6mks)

(b) Describe how the basket method is used in catching the fish. (5marks)

(c) (i) State **five** ways in which marine fisheries in Kenya can be conserved. (5marks)

(ii) Name **three** methods used to preserve fish in lake Turkana. (3marks)

(d). State **three** characteristics of demersal fish. (3marks)

9. (a). Study the map outline below shows the Great lakes and St. Lawrence sea way and use it to answer questions below.



(i). Use the map to name the following:

(4marks)

- The lake marked X
- The canal marked Y
- The waterfall marked Z

(ii). State **five** problems and the solutions faced during the construction of the Great lakes and St. Lawrence sea way.

(5marks)

(iii). Explain **three** ways through which the water way has promoted industrialization in the economies of the Canada and U.S.A.

(6marks)

(b). State **four** ways in which the Kenyan government has promoted air transport. (4marks)

(c). What is containerization?

(2marks)

(d). Give **four** advantages of the Great North road.

(4marks)



10. (a) Differentiate between management and conservation of environment. (2marks)
- (b) (i) State **four** reasons for the management and conservation of environment. (4marks)
- (ii) Give **three** man-made hazards in your country. (3marks)
- (c) State **five** effects of drought in Kenya. (5marks)
- (d) You are planning to carry out a field study on causes of pollution along Nairobi river.
- (i) Identify **three** ways you will need to prepare for the study. (3marks)
- ii) Identify **five** causes of pollution you are likely to see along Nairobi river. (5marks)
- (ii) What are possible follow-up activities that students will be involved in after the study? (3marks)

***All the Best!***

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION 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.**

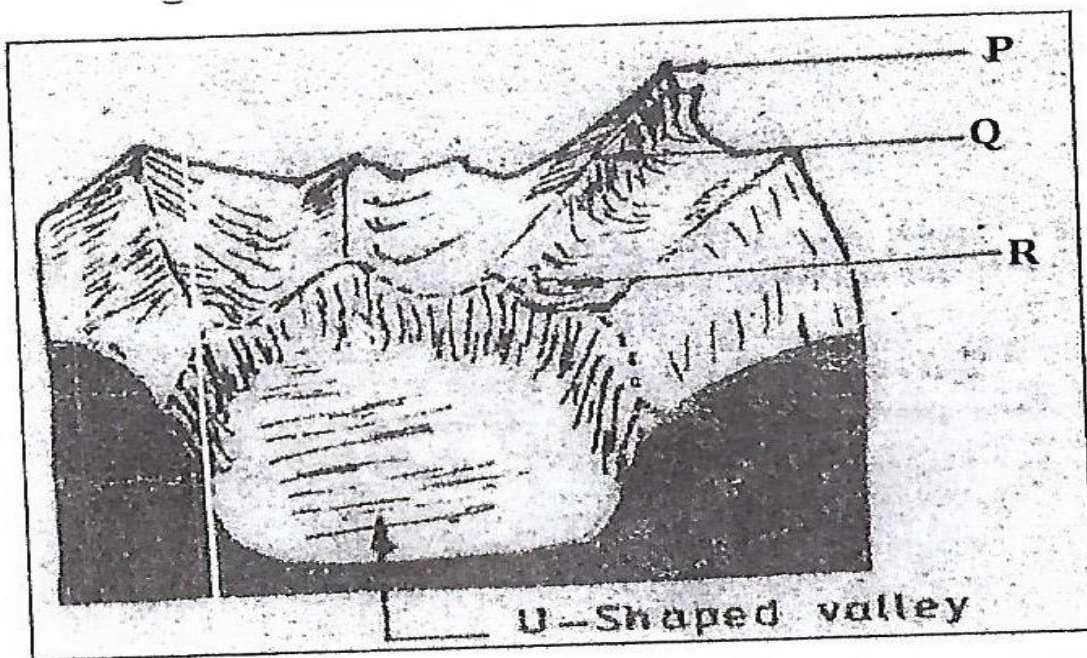
- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.**

**Answer all the questions in this section**

1. (a) What is the relationship between Geography and Chemistry? (2marks)  
(b) Give three reasons why the interior of the Earth is hot. (3marks)
2. (a) Distinguish between Vulcanicity and Volcanicity. (2marks)  
(b) Give two characteristics of basic lava domes. (2marks).
3. (a) What is desertification? (2marks)  
(b) State three negative effects of desertification. (3marks)
4. The diagram below shows an upland area.



- (a) Name the feature P, Q and R. (3 marks)
- (b) How is a u-shaped valley formed? (3 marks)
5. (a) State three ways in which lakes are formed. (3 marks)  
(b) Give two characteristics of lakes formed due to faulting. (2 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) Give the **four** figure grid reference of Obwolo school. (1mk)
  - ii) What is the approximate height of point 000960? (1mk)

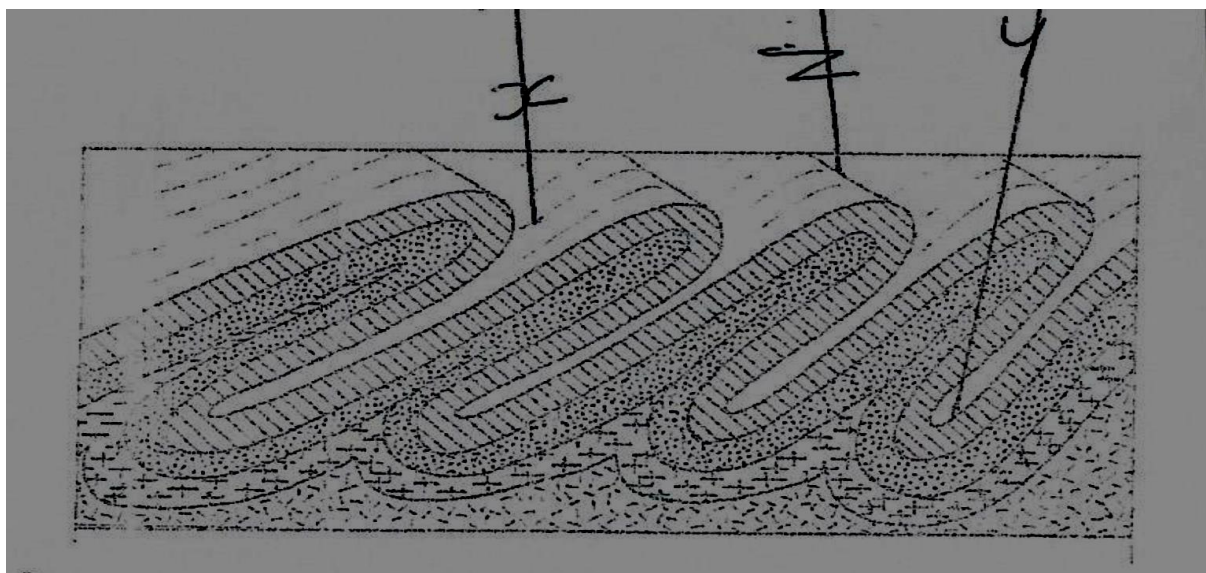
- iii) Name two physical features found at grid square 0384. (2mks)
- iv) Name two types of natural vegetation in the area covered by the map (2mks)
- b) Calculate the area of the Kisumu municipality. Give your answer in square kilometers (km<sup>2</sup>) (2mks)
- c) **Measure** the length of the all-weather road(bound surface) from the junction at grid reference 974911 to the edge of the map, grid reference 950968 (2mks)
- d) Citing evidence, give three social functions of Kisumu town. (6mks)
- e) i) Using a scale of 1cm to represent 200 metres, draw a cross-section from grid reference 970980 to 030989. (4mks)
- ii) On it mark and name the following
- Steep slope (1mk)
  - Motor able road (1mk)
  - Nyangori river (1mk)
- iii) Calculate the vertical exaggeration. (2mks)

7. (a)(i) What is folding? (2marks)

(ii) Name one country where the following fold mountains are found.

- Andes (1mark)
- Atlas (1mark)

(a) The diagram below shows a types of fold.



Name the features marked **x**, **y** and **z** ( 3marks)

(b) With the aid of a labelled diagram, describe how an over thrust fold is formed. (6 marks)

(d) Explain four effects of fold mountains on climate (8marks)

(e) Form four students in your school are planning to study land forms through field work.

Give four reasons why it is important to study the folded landforms through fieldwork.

(4 marks)

8. (a) Define the term vegetation (2marks)

(b) Explain how the following factors influences the distribution of vegetation

(i) Aspect (2marks)

(ii) Relief (3marks)

(c)The map below shows world vegetation zone



(i) Name vegetation type marked 1,2, 3, and 4 (4marks)

(c) Explain four ways in which trees in coniferous forests are adopted to the climatic condition (8marks)

(e)A form four Geography class is planning to carry out a field study in Kakamega forest.

(i) State how they would use the following tools during the study.

- A tape recorder (1mark)
- A sketch map (1mark)
- A camera (1mark)

(ii) Give three methods they would use to collect the data during the study. (3 marks)



- 9.** (a) (i) Differentiate between river catchment and watershed. **(2marks)**  
(ii) Describe three processes by which a river transports its load. **(6marks)**  
(b) Explain three factors that lead to rejuvenation of a river. **(6marks)**  
(c) Describe each of the following drainage patterns.  
(i) Centripetal drainage pattern **(2marks)**  
(ii) Superimposed drainage pattern **(3marks)**  
(d) You are to carry out a field study of a river within the vicinity of your school.  
(i) State two reasons why you need a working schedule. **(2 marks)**  
(ii) State two characteristics of a river you are likely to observe in its lower course. **(2 marks)**  
(iii) State two follow up activities you are likely to carry out after the study. **(2marks)**
- 10.** (a) (i) Name two components of soils. **(2 marks)**  
(ii) State three characteristics of desert soils. **(3 marks)**  
(iii) List two factors that contribute to soil leaching. **(2 marks)**  
(b) Describe how lateralization occurs. **(6 marks)**  
(c) Explain how the following processes occurs.  
(i) Splash erosion **(2 marks)**  
(ii) Gulley erosion **(2 marks)**  
(d) (i) What is soil conservation? **(2 marks)**  
(ii) Explain in three ways of maintaining soil fertility. **(6 marks)**



**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 4**

312/2

**GEOGRAPHY****PAPER 2**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A:****Answer all the questions in this Section**

1. (a) Define:

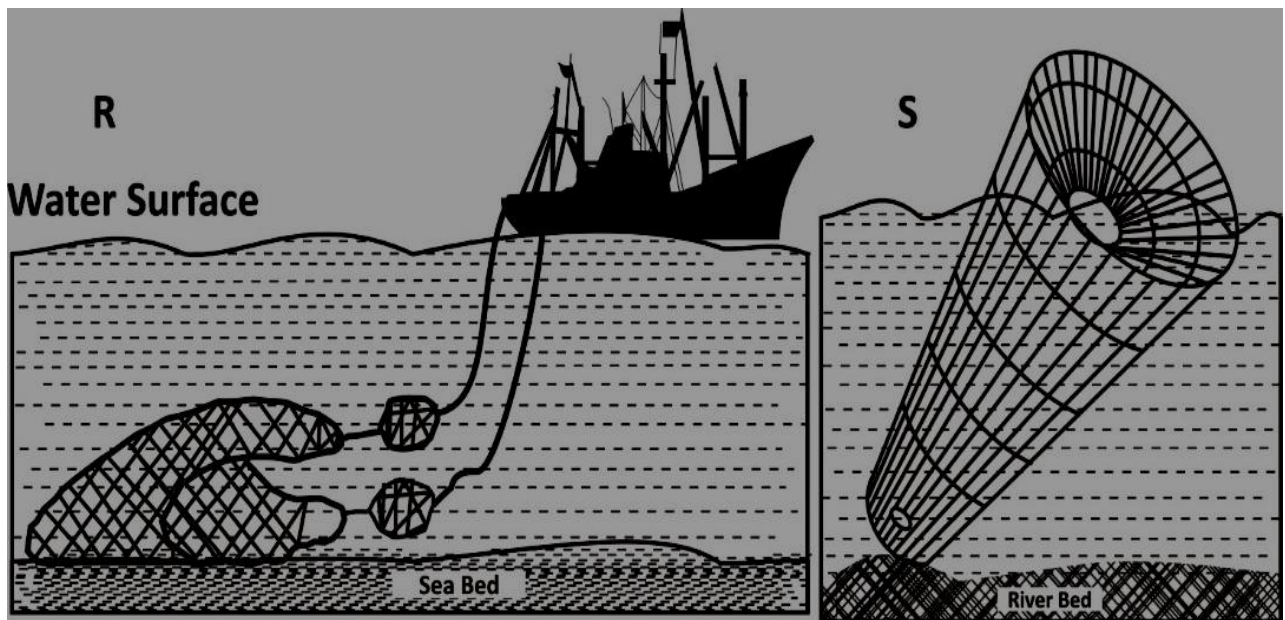
(i) Environment

(2mks)

(b) Name **three** non-governmental organizations involved in the Management and conservation of environment in Kenya.

(3mks)

2. (a) The diagrams below represents some fishing methods.



(i) Name **R** and **S**.

(2mks)

(b) State **three** reasons why marine fisheries are underdeveloped in East Africa (3mks)

3. (a) Name any **two** places where gold is mined in Tanzania.

(2mks)

(b) State **three** ways in which Bamburi cement manufacturing company has tried to solve land dereliction.

(3mks)

4. (a) State **two** benefits of decentralization of industries in Kenya.

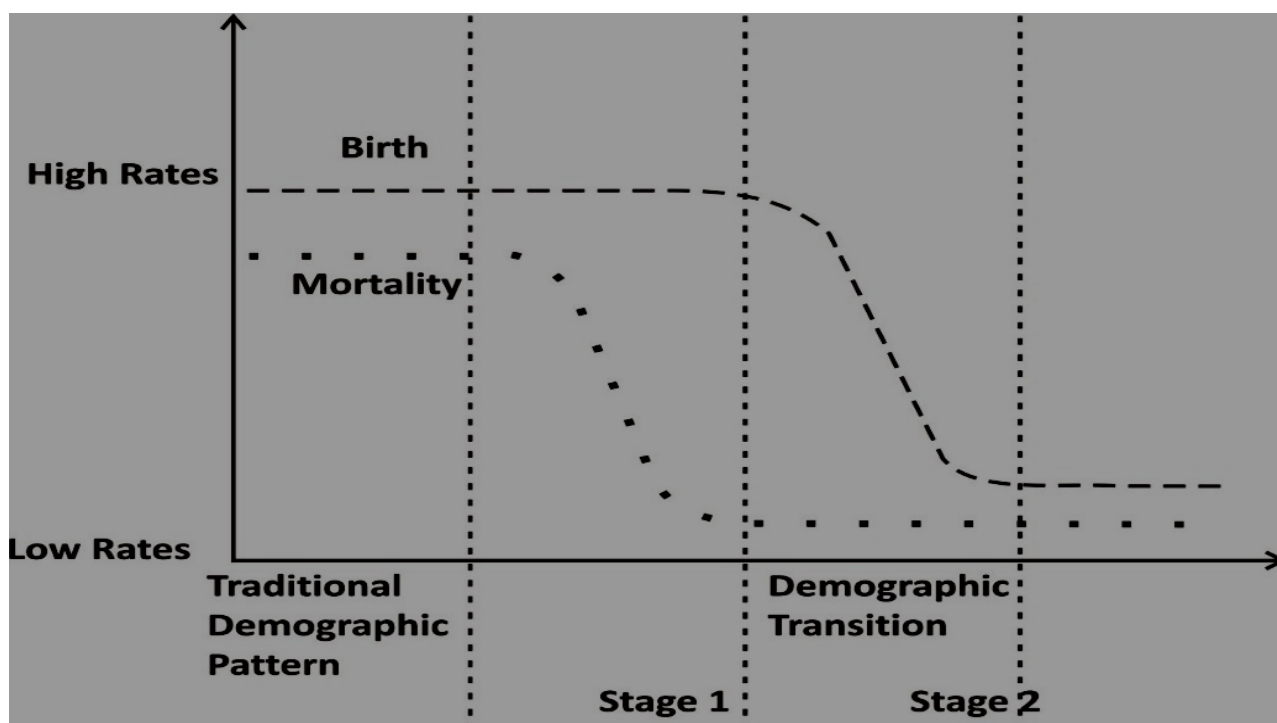
(2mks)

(b) State **three** advantages of the Jua Kali sector in Kenya.

(3mks)

5. The diagram below shows the demographic transition of a given region.

Use it to answer the questions that follow:



- a) Give **two** characteristics of stage 1. (2mks)
- b) State **three** reasons for the high death rates in the traditional stage. (3mks)

### SECTION B

Answer Question 6 and any other TWO questions.

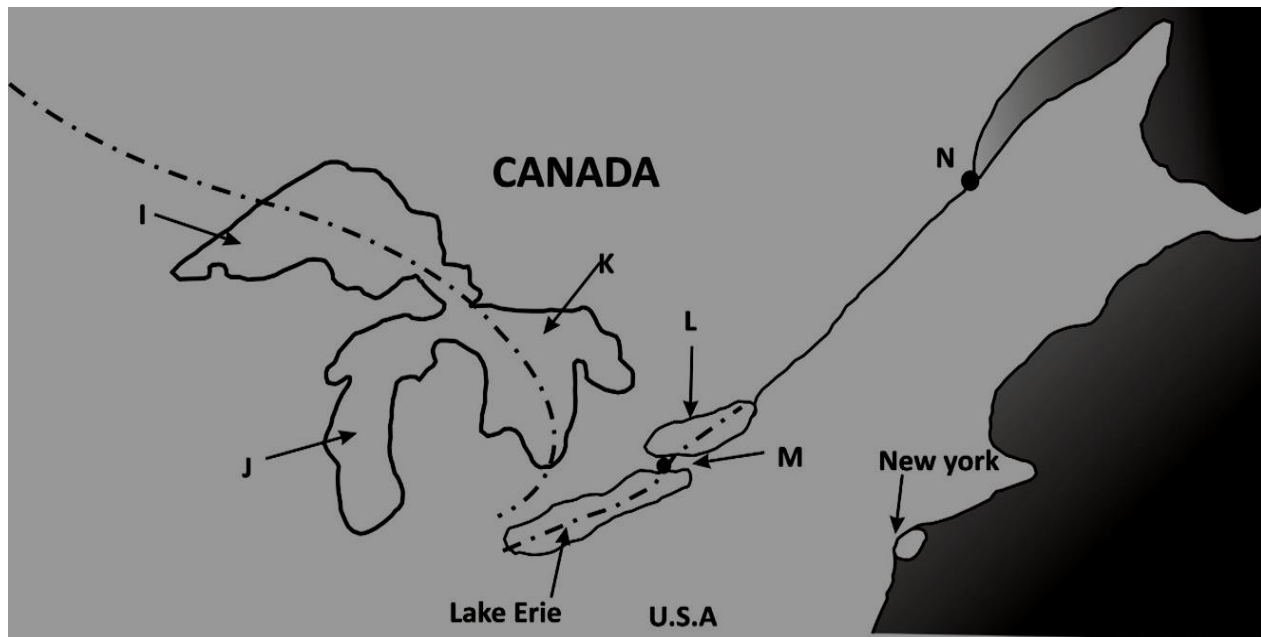
6. (a) The table below shows the value of export crops from Kenya between 1995 and 1998 in million Ksh. Use it to answer questions below.

Crop /year	1995	1996	1997	1998
Maize	224	210	360	286
Coffee	168	190	267	310
Tea	320	280	299	388
Horticultural	200	240	315	461
<b>Total</b>	<b>912</b>	<b>920</b>	<b>1241</b>	<b>1445</b>

- (i) **Calculate** the total export value for tea. (2mks)
- (ii) Using a scale of 1cm to represent Ksh. 100 million, draw a cumulative bar graph to represent the data above. (7mks)
- (b) (i) **Distinguish** between the following terms Balance of trade and Balance of payment. (2mks)
- (ii) **Explain three** factors that influence trade in Kenya. (6mks)

- (c) (i) **State three** main regional trading blocs in Africa. (3mks)
- (ii) **Highlight three** common problems facing the African regional trading blocs. (3mks)
- (ii) **Give two** efforts made by the Kenya government to enhance external trade. (2mks)

7. Use the sketch map of the Great Lakes and St. Lawrence Seaway given to answer the questions below:



a) Name

- (i) The port marked N (1mk)
- (ii) The waterfall marked M (1mk)
- (iii) The lakes marked J, K and L (3mks)

Give **three** benefits that Kenyans enjoy due to the new regulations introduced in the transport sector, especially “matatu” transport. (3mks)

b) Mention **three** ways in which containerization has improved the handling of goods at a port. (3mks)

c) (i) Explain **three** factors that have hindered the development of river transport in Africa. (6mks)

(iii) Explain **four** contributions of the St. Lawrence Seaway to the economy of Canada and the U.S.A (8mks)

- 8 a) Define the following terms
- i) Wildlife (1mk)
  - ii) Eco-tourism (1mk)
- b) Give **five** reasons why it is necessary to conserve wildlife. (5mks)
- c) i) Name **two** coastal tourist attractions in Kenya (2mks)
- ii) Explain **three** benefits that Kenya gets from tourism. (6mks)
- d) i) State **four** reasons for encouraging domestic tourism in Kenya. (4mks)
- ii) Explain **three** factors which make Switzerland receive more tourists than Kenya. (6mks)
9. (a) (i) Name **two** indigenous softwood trees found in Kenya. (2mks)
- (ii) Differentiate between natural forests and planted forests. (4mks)
- (b) Explain **four** physical conditions that hinder lumbering of tropical forests. (8mks)
- (c) Compare forestry in Kenya and Canada under the following sub –headings:
- (i) Growth (2mks)
  - (ii) Harvesting (2mks)
  - (iii) Marketing (2mks)
- (d) State **five** measures taken by the Kenyan government to conserve forests. (5mks)
10. (a) Mention **three** problems facing dairy farming in Kenya. (3mks)
- (b) State **five** human factors that have favoured beef farming in Argentina. (5mks)
- (c) Compare beef farming in Kenya and in Argentina. (6mks)
- (d) What effort is Kenyan government making to improve beef farming? (5mks)
- (e) You intend to conduct a field study on beef farming near your school.
- (i) State **two** objectives for your study. (2mks)
  - (ii) Give **four** advantages of studying beef farming through field work (4mks)

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 5**

312/1

**GEOGRAPHY****PAPER 1**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

- (a) Write your name and index number in the spaces provided above.
- (b) Sign and write the date of the examination in the spaces provided above.
- (c) This paper consists of two sections; A and B.
- (d) Answer all the questions in section A and question 6 and any other two questions in section B.
- (e) Answer all the questions in English.

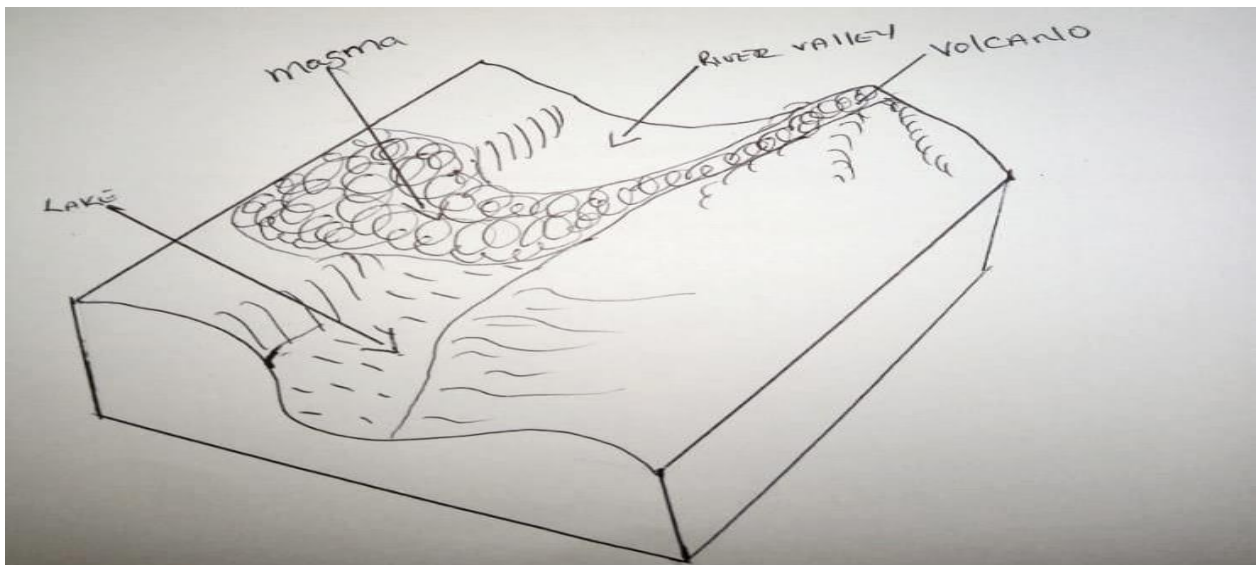
SECTION	QUESTIONS	MAXIMUM SCORE	SCORE
A	1-5	25	
B	6	25	
		25	
		25	
	TOTAL SCORE		



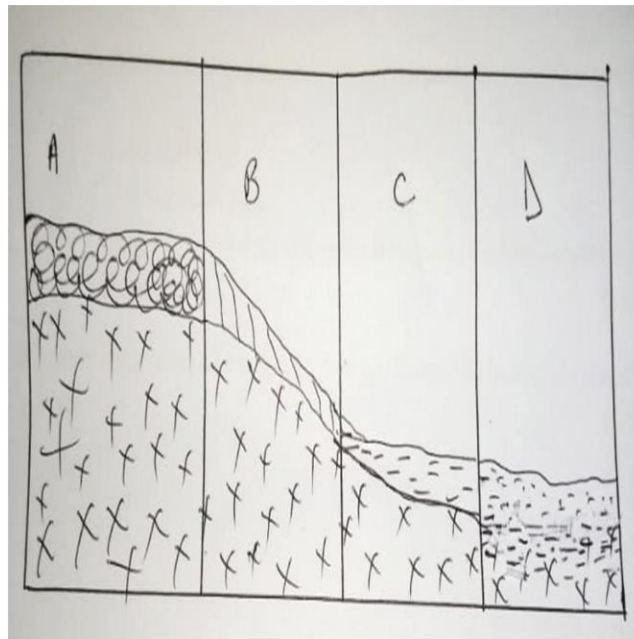
**SECTION A.**

**Answer all questions in this section.**

1. (a) Define the term meteorite (2 marks)  
(b) Give **three** reasons why in 360° Atlas, Pluto as a planet has been disqualified by the International Astronomical Union (3 marks)
2. (a) Differentiate between cleavage and lustre in minerals (2 marks)  
(b) Identify **three** types of iron ore (3 marks)
3. (a) Define the term Tsunami (2 marks)  
(b) Name **three** types of earthquakes depending on the depth of focus (3 marks)
4. The diagram below shows the formation of a lake.



- (a) Identify the type of lake (1mark)
- (b) State **two** characteristics of such a lake and give one example. (3 marks)
5. (a) Identify **two** soil forming processes. (2 marks)  
(b) The diagram below shows soil arrangement.



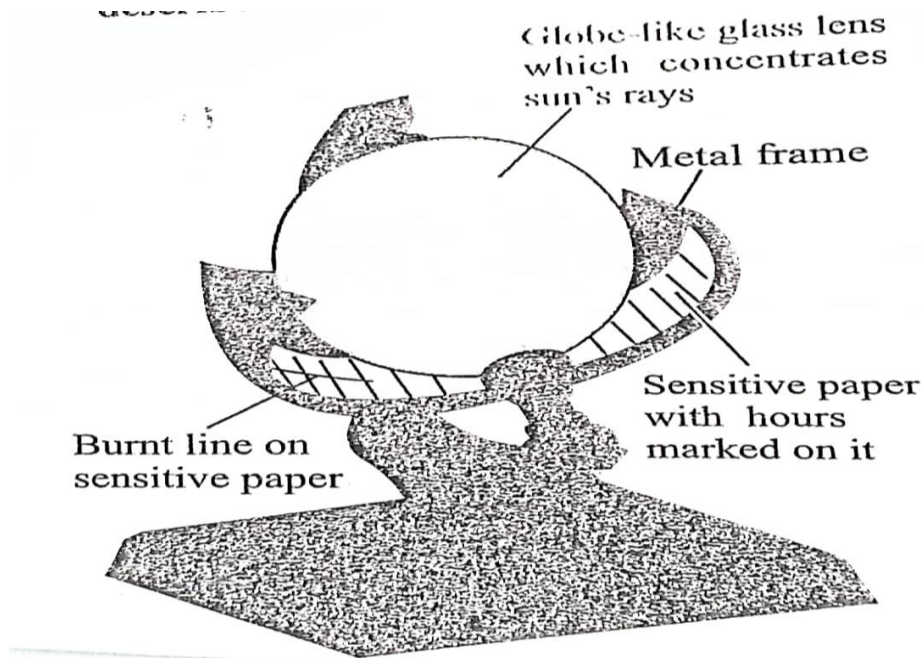
- (i) Identify the soil arrangement. (1 mark)
- (ii) Describe the nature of the soil found in parts
- B- (1 mark)
- C- (1 mark)
- D- (1 mark)

## SECTION B

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

- 6) Study the map of Nyeri 1:50,000 (sheet 120/4) provided and answer the following questions.
- a) i) What is the longitudinal extent of the map extract? (2marks)
- ii) Give the **Four** figure grid reference of the labour camp near Mweiga estate (2marks)
- iii) Identify **two** districts in the area covered by the map. (2marks)
- b) i) Give two methods used to represent relief on the map (2marks)
- ii) State three problems that maybe encountered during the construction of roads in the area covered by the map (3marks)
- c) Citing evidence from the map, give three reasons why cattle rearing is widespread in Nyeri area. (6marks)
- d) i) Apart from administration, give three other services provided in the area covered by Nyeri map
- ii) Describe the distribution of settlement in the area covered by the map (4marks).
- iii) Give two factors that favour coffee growing in Nyeri Map (2marks)

7. (a) (i) Define the term folding (2 marks)  
(ii) What is an orogeny (2 marks)  
(iii) Name two types of orogenies (2 marks)
- (b) Describe how the plate tectonics theory contributes to the formation of Fold Mountains. (4 marks)
- (c) (i) Identify **two** factors which influence folding of crustal rocks (2 marks)  
(ii) Apart from fold mountains, name three other features formed by folding process (3 marks)  
(iii) Using a well-labeled diagrams, describe the formation of fold mountains by the continental drift theory (6 marks)
- (d) (i) Your class carried out a field study on a fold mountain region.  
(ii) Give **two** alternative hypotheses that you could have formulated for the study (2 marks)  
(iii) Give **two** reasons the student must have put into consideration before rejecting observation as a method of data collection (2 marks)
8. (a) (i) Define the term karst scenery (2 marks)  
(ii) Give **three** conditions that influence the development of a karst landscape (3 mks)
- (b) Describe the formation of a limestone cave (5 marks)
- (c) (i) give **four** reasons why there are few settlement in karst region (4 marks)
- (d) (i) Explain **three** factors that favor existence of underground water (6 marks)  
(ii) Give the significance of ground water (5 marks)
9. (a) (i) Define weather (2 marks)  
(ii) Give three reasons why weather forecasting is important (3 marks)
- (b) (i) Using a well-labeled diagram, describe the formation of convectional rainfall (5 marks)  
(ii) Name the instrument shown below and describe how it is used (5 marks)



- (c) (i) Differentiate between mist and fog (2 marks)
- (ii) Give **four** causes of temperature inversion (2 marks)
- (iii) Your geography class carried out a field study on weather in a school weather station. Give **four** reasons why it would be difficult to obtain accurate data from school weather station. (4 marks)
10. (a) (i) Define the term glaciation. (2 marks)
- (ii) Give **two** processes of glaciation movement (2 marks)
- (b) Explain three factors that influence glacial erosion (6 marks)
- (c) Describe the formation of cirque lake (6 marks)
- d. (i) Apart from rock pedestal name two other erosion feature formed by wind in desert. (2 marks)
- (ii) With well labeled diagrams describe the formation of a rock pedestal. (7 marks)

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 5**

312/2

**GEOGRAPHY****PAPER 2**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

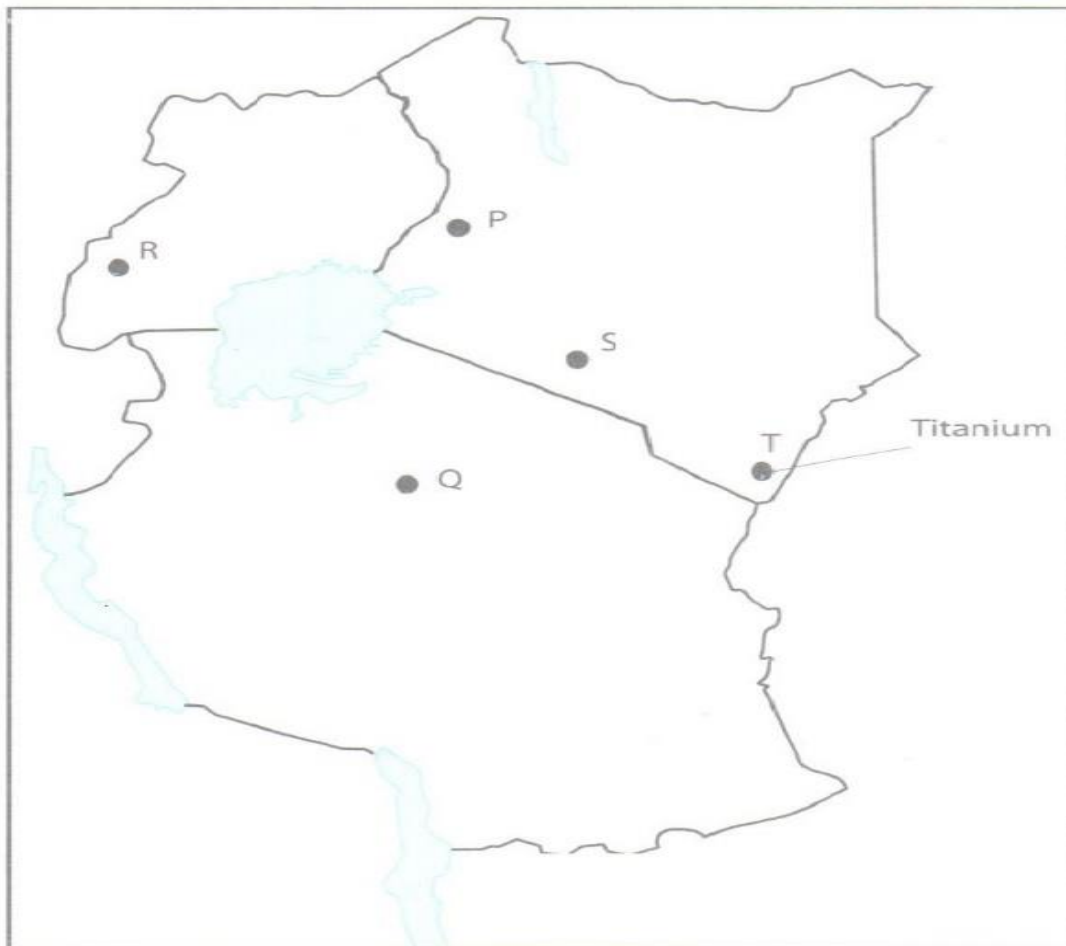
- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.**

**Answer all questions in this section.**

**Q1.** Use the map of East Africa below to answer question 1.



**(a)** Name the minerals found in the areas labelled **P,Q,R,S** and **T**. **(5mks).**

**Q**

**R**

**S**

**T**

**(b)** Identify the method of mining for the minerals labelled **S** and **T** **(2mks)**

**S**

**T**

**2. (a)** Define the term 'Forest management'. **(2 marks)**

**(b)** Explain **three** measures taken by the Kenya government to conserve forest. **(6 marks)**

**3.** Name **three** areas in Kenya where sugar cane is grown. **(3 marks)**



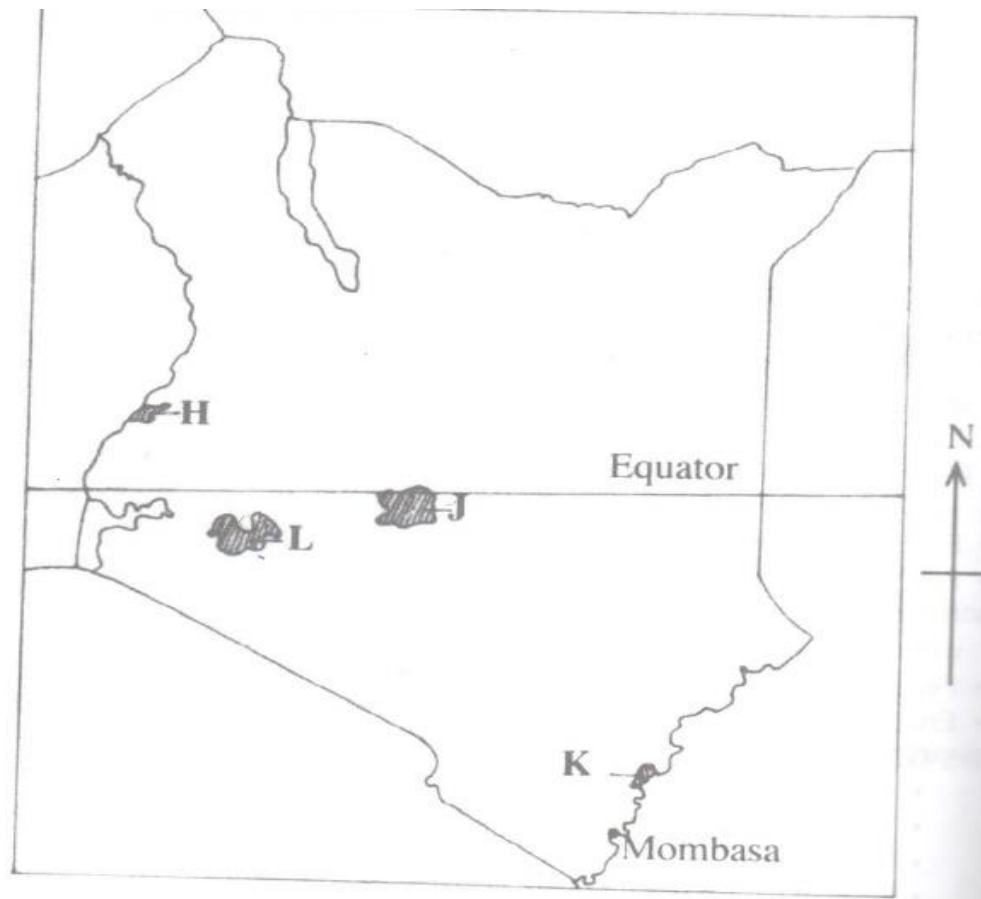
4. (a) Define the term fisheries. (2 marks)
- (b) State **three** ways in which marine fisheries in Kenya can be conserved. (3 marks)
5. Name **two** methods used in deep sea fishing. (2 marks)

### SECTION B

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



- (a) Identify the type of photograph above. (1 marks)
- (b) (i) Identify the type of farming shown in the photograph. (1 mark)
- (ii) Name **two** main areas in Kenya where the type of farming identified in (i) above is practiced. (2 marks)
- (c) Explain **three** human factors that influence the type of farming in the photograph in the Kenya highlands. (6 marks)
- (d) Explain **five** factors that favour horticulture in Kenya. (10 marks)
- (e) (i) Name **two** areas where horticulture is practiced in The Netherlands. (2 marks)
- (ii) Give **three** difference between horticulture in Kenya and the Netherlands. (3 marks)
7. (a) (i) What is agroforestry? (2 marks)
- (ii) Give **four** reasons why agroforestry is encouraged in Kenya. (4 marks)
- (b) Use the map of Kenya to answer questions (b) (i) and (ii).



(i) Name the forest reserves marked **H, J and K**. (3 marks)

**H**

**J**

**K**

(ii) Explain **four** factors that favour the growth of natural forests in the area marked L.

(8 marks)

(c) Explain **four** problems facing forestry in Kenya.

(8 marks)

8. (a) Describe the stages in the reclamation of land from the sea in the Netherlands. (6 marks)

(b) Explain **four** benefits of land reclamation in Netherlands.

(8 marks)

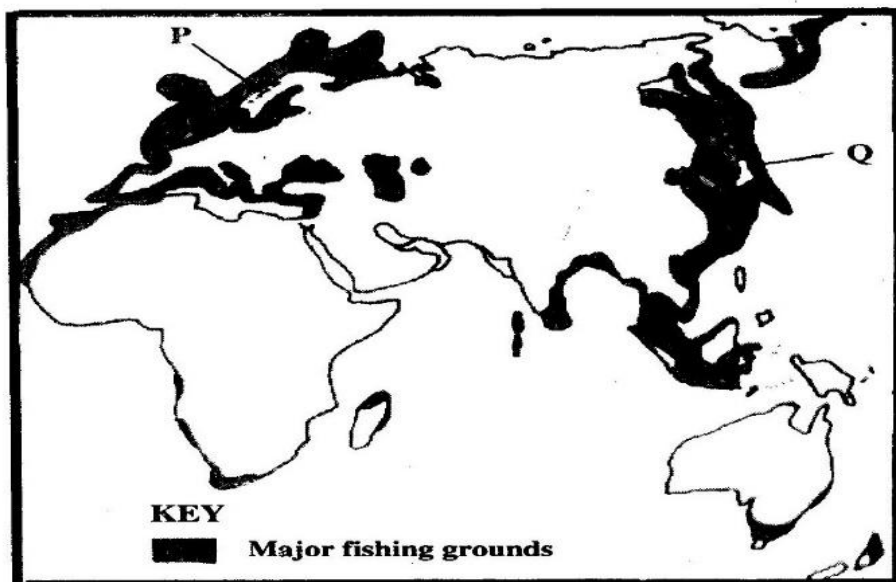
(c) (i) Explain **three** conditions that face irrigation farming in Kenya.

(6 marks)

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

(5 marks)

9. The map below shows some major fishing grounds in the world. Use it to answer question

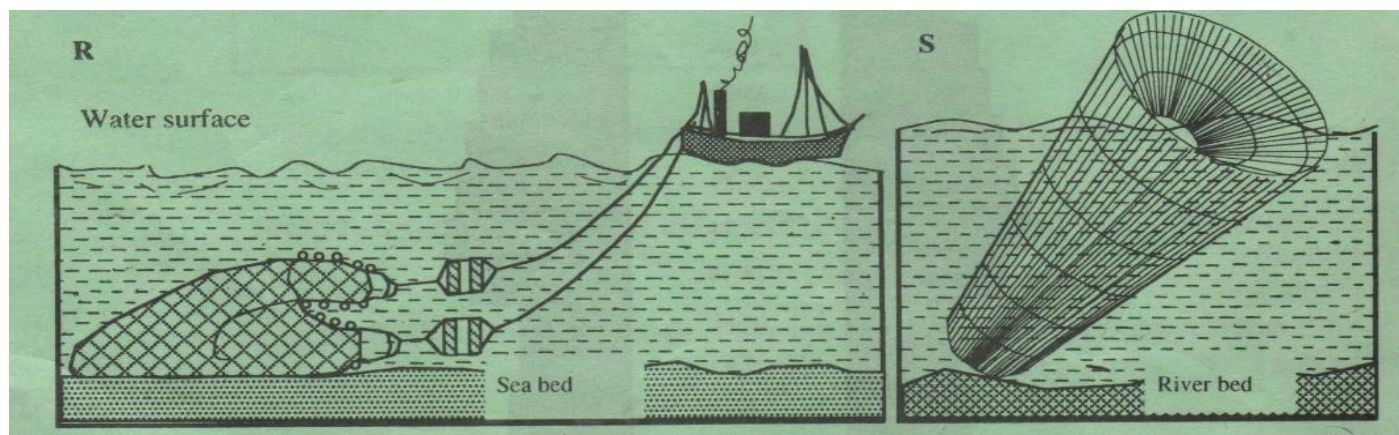


(a).

(a) (i) Name the countries marked **P** and **Q**. (2 marks)

(ii) Explain **four** conditions that favour fishing in the shaded coastal waters. (8 marks)

(b) The diagram below represents some fishing methods.



(i) Name methods **R** and **S**. (2 marks)

**R**

**S**

(ii) Describe how each of the two methods are used in fishing. (7 marks)

(c) Explain **three** measures used to conserve fish in Kenya. (6 marks)

- 10. (a) (i)** Distinguish between a game sanctuary and a national park. **(2 marks)**
- (ii)** Draw a map of Kenya and on it mark and name Sibiloi National park, Maasai Game Reserve and Tsavo National park. **(4 marks)**
- (b) (i)** Give **three** factors that favour the establishment of the national Parks in the semi-arid areas of East Africa. **(3 marks)**
- (ii)** Explain **two** effects of drought on wildlife in Kenya. **(4 marks)**
- (c)** Explain **four** measures that the government of Kenya has taken to conserve wildlife other than establishing national parks and game reserves. **(8 marks)**
- (d)** State **four** ways in which wild animals are of significance to the economy of Kenya. **(4 mks)**

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 6**

312/1

**GEOGRAPHY****PAPER 1**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.**

**Answer all questions in this section.**

- 1.a) Name two layers of discontinuity that are part of the interior of the earth. (2mks)
- b) State the characteristics of the outer core in the interior structure of the earth. (3mks)
- 2.a) What is a lake? (2mks)
- b) Give three ways in which water weeds have affected lakes in Kenya. (3mks)
- 3.a) Name two types of faults associated with faulting. (2mks)
- (b) State three effects of faulting on drainage of an area. (3 marks)
4. a) i ) What is a soil profile? (1mk)
- ii) Name two components of soil. (2mks)
- iii) Differentiate between soil structure and soil texture. (2mks)
5. (a) Differentiate between secondary vegetation and planted vegetation. (2mks)
- (b) State three characteristics of Mediterranean type of vegetation. (3mks)

**SECTION B**

**Answer Question 6 And Any Other Two Questions From This Section**

6. Study the map of Nyeri 1:50,000 (sheet 120/4) provided and answer the following questions.
- (a) (i) Give the longitudinal extent of the area covered by the map. (2 marks)
- (ii) Give the six figure grid reference of the trigonometric station at Nyeri Hill forest. (2 marks)
- (iii) Calculate the area of Nyeri forest. Give your answer in square kilometres. (2 marks)
- (b) (i) What is the bearing of The Ark Lodge from the trigonometric station 120 UT 16. (2 marks)
- (ii) Identify **three** man-made features in grid square 7263. (3 marks)
- (iii) Give **three** drainage features found in the area covered by the map. (3 marks)
- (c) Describe the relief of the area covered by the map. (5 marks)
- (d) Citing evidence from the map, identify **three** social services offered in Nyeri Township. (6 marks)
7. a ) i) Distinguish between weather and climate. (2mks)
- ii) State three conditions that are necessary for sitting a weather station. (3mks)
- b) Explain how the following factors influence climate.
- i) Aspect. (2mks)



ii) Ocean currents. (2mks)

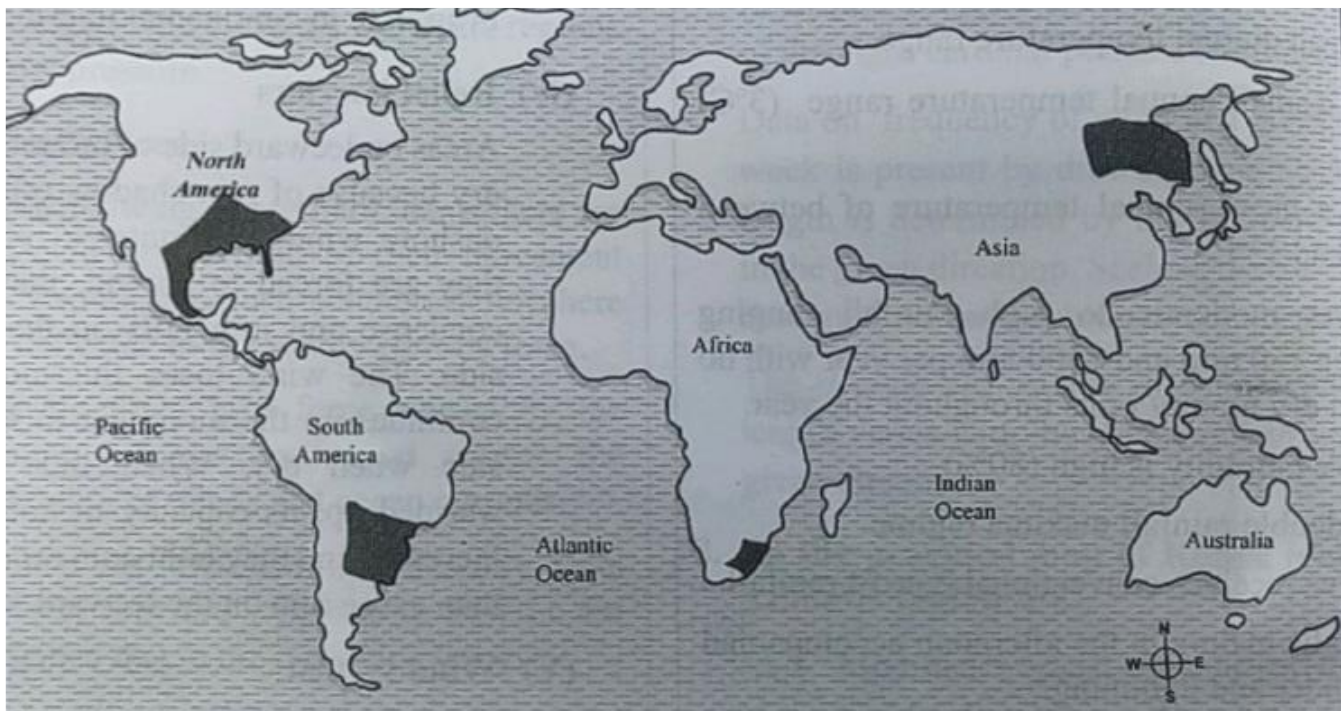
a) The table below shows rainfall and temperature for a station in Africa. Use it to answer the questions that follows.

MONTH	J	F	M	A	M	J	J	A	S	O	N	D
TEMPERATURE	27	28	27	26	23	21	21	21	23	25	26	27
RAINFALL(MM)	232	250	219	107	60	32	27	26	22	37	90	210

i) Calculate the annual range of temperature. (2mk)

ii) Describe the annual rainfall pattern of the station. (4mks)

d) The world map below shows a certain climatic region. Study it and answer the following questions.



i) Identify the climate experienced in the shaded region. (1mk)

ii) Describe the characteristics of the climate named above. (4mks)

e) Distinguish between aridity and desertification. (2mks)

ii) State three human activities that contribute to aridity and desertification. (3 mks)

8. (a) (i) Name three types of hot desert landscape. (3mks)

ii) State two reasons why wind erosion is very effective in hot deserts. (2 mks)

b i) ) Apart from Yardangs name three features that results from wind action in deserts. (3 mks)

- i) Using well labelled diagrams, describe how Yardangs are formed. (7mks)
- i) Explain how the following processes of wind erosion occur in the desert areas.
- i) Saltation. (2mks)
- ii) Surface creep. (2mks)
- j) You intend to carry out a field study in an arid area near your school.
- i) State two reasons for carrying out a pre-visit. (2mks)
- ii) State four positive effects of desert features to man that you are likely to identify. (4 mks)

9. a) i) Differentiate between a rock and a mineral. (2mks)
- b) Describe the following characteristics of minerals.
- i) Color. (2mks)
- ii) Hardness. (2mks)
- C. i) What are igneous rocks? (2mks)
- ii) State three notable differences between plutonic and volcanic rocks. (3mks)
- d) Describe the formation of the following rocks.
- i) Mechanically formed sedimentary rocks. (3mks)
- ii) Chemically formed sedimentary rocks. (3mks)
- k) i) Identify the missing type of rocks. (3mks)

Original rock	Metamorphic rock
Limestone	(i)
(ii)	Graphite
Granite	(iii)

Supposing you were to carry out a field study on rocks at the Kenyan coast.

- i) State two reasons as to why you would ask for permission from the school administration. (2mks)
- ii) What reasons would you give for the widespread of sedimentary rocks at the coastal plain. (3mks)

- 10. (a) (i)** Differentiate between a spring and a well **(2 marks)**
- ii)** State four conditions favoring formation of artesian well. **(4 marks)**
- b). ( i )** What is a Karst scenery? **(2 marks)**
- (ii)** Name five features formed on the surface in a Karst area. **(5 marks)**
- c).** With the aid of a well labeled diagram describe how a limestone pillar is formed. **(6 marks)**
- d)** Explain three significance of Karst scenery to human economic activities. **(6 marks)**

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION 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) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.**

**Answer all questions in this section.**

1. a) Define the term “derelict land”. (1mk)  
b) State **three** ways in which mining can pollute the environment. (3mks)
2. a) State **two** causes of food shortage in Kenya. (2mks)  
b) State **three** social factors affecting agriculture in Kenya. (3mks)
3. a) Name the **three** main towns that form the cocoa triangle in Ghana. (3mks)  
b) State **three** physical conditions favouring cocoa growing in Ghana. (3mks)
4. a) Name **two** varieties of coffee grown in Kenya (2 marks)  
b) Explain how the following factors favour coffee growing in the central Highlands of Kenya.  
High Altitude (2 marks)  
High Population (2 marks)
5. a) State **two** physical factors influencing beef farming in Argentina. (2mks)  
b) State **two** differences between beef farming in Argentina and Kenya. (2mks)

**SECTION B**

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

6. Study the photograph shown below and use it to answer the following questions.



- a) i) Identify the type of the photograph shown above. 2mks
- ii) Identify **one** characteristic of the photograph shown above. 2mks

- iii) Give **three** parts of a photograph. **3mks**
- b) Name the type of mining method shown above. **2mks**
- c) Explain how the method named above (b) is carried out. **6mks**
- d) Explain **three** negative effects of the above method of mining on the environment. **6mks**
- e) Draw a sketch diagram to represent the photograph shown above. **4mks**
7. (a) Differentiate between land reclamation and land rehabilitation. **(2mks)**
- (b) (i) List **three** ways in which tsetse fly menace has been controlled in the Lambwe Valley. **(3mks)**
- (ii) Name **two** areas in Kenya where swamps have been reclaimed. **(2mks)**
- (iii) State **four** factors which influenced the establishment of Perkerra Irrigation Scheme. **(4mks)**
- (c) You intend to carry out a field study on Budalangi Flood control.
- (i) Name **two** methods that have been used to control flooding in Budalangi. **(2mks)**
- (ii) Give **three** reasons why flood control in Budalangi is important. **(3mks)**
- (iii) List **three** activities that you would undertake prior to the study. **(3mks)**
- (iv) Explain **three** methods that you would use to present your findings after the study. **(6mks)**
8. a) (i) Differentiate horticulture from market gardening. **(2mks)**
- (ii) State **three** features of horticulture. **(3mks)**
- (b) Explain **three** differences between horticulture in Kenya and Netherlands. **(6mks)**
- c) (i) Give **three** livestock breeds of beef cattle found in Kenya. **(3mks)**
- (ii) Explain **three** human factors that favour beef production in Argentina. **(6mks)**
- d) Give **five** steps that the government of Kenya has taken to improve beef farming. **(5mks)**
- 9 a) (i) Name **two** types of fishing. **(2mks)**
- (ii) State **three** factors that influencing fishing. **(3mks)**
- b) Explain **three** reasons why the North East Atlantic fishing ground is extensively and highly developed. **(6mks)**
- c) (i) What is fish farming? **(2mks)**
- (ii) Describe harpooning as a method of fishing. **(4mks)**



- d) (i)** State **two** problems facing fishing in Japan. (4mks)
- (ii)** Explain **two** similarities between fishing in Kenya and Japan. (4mks)
- 10. a) (i)** Define a forest. (2mks)
- (ii)** State any **four** characteristics of Tropical Hardwood forests (4mks)
- b)** Explain how each of the following factors influence the distribution and types of natural forests.
- (i)** Soils (2mks)
- (ii)** Altitude (2mks)
- c) (i)** State **five** importance of forest products in Kenya. (5mks)
- (ii)** List **four** measures that have been taken to conserve forests in Kenya. (4mks)
- d)** Compare softwood forests in Kenya and Canada under the following sub-headings
- (i)** Tree species (2mks)
- (ii)** Processing (2mks)
- (iii)** Marketing (2mks)

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 7**

312/1

**GEOGRAPHY****PAPER 1**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

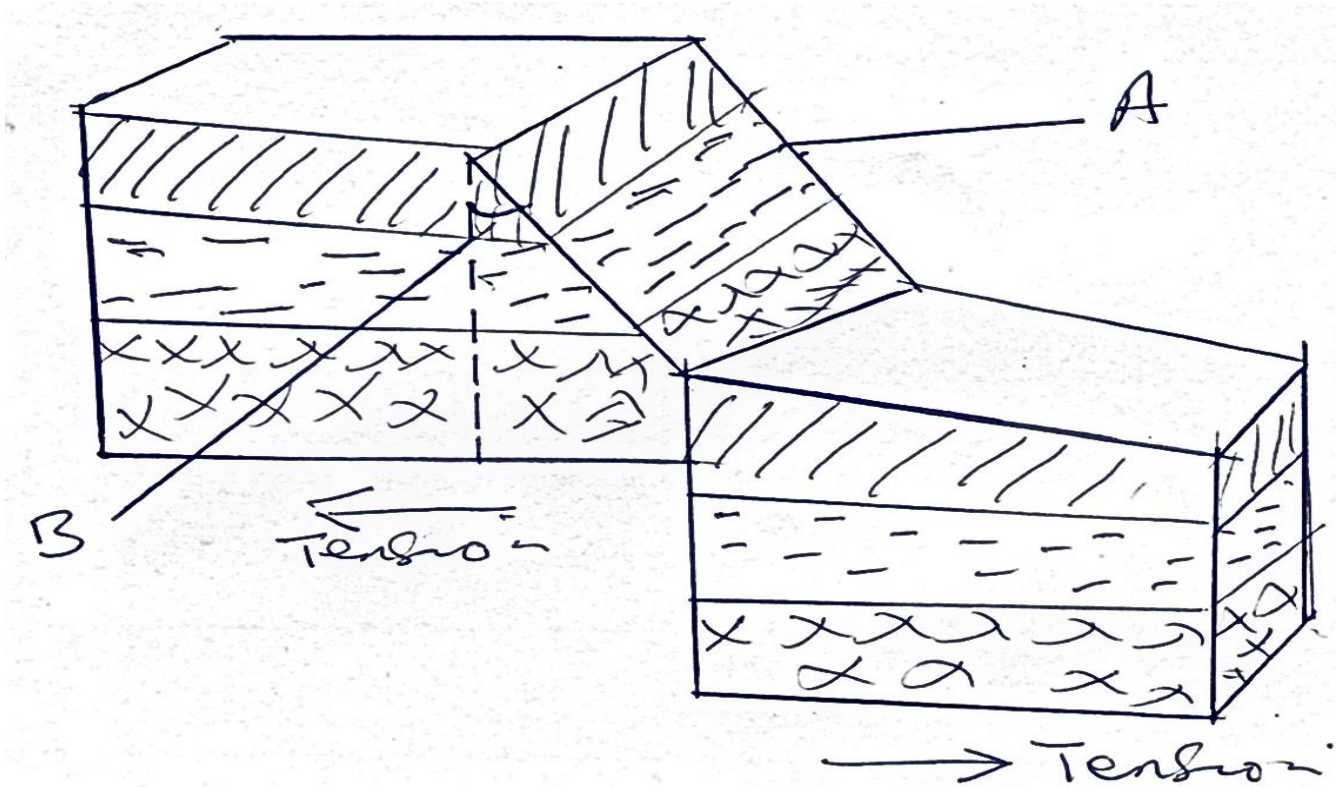
- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.**

*Answer all the questions in this section.*

1. The diagram below represents part of the earth's crust which has been subjected to tension forces.



- a) i) Name the slope marked A. (1 mk)  
 ii) Name the angle marked B. (1 mk)
  - b) State three ways in which faulting can influence drainage systems. (3mks)
2. a) Differentiate between longitudes and latitudes. (2mks)  
 b) If the local time in Nairobi on longitude 37°E is 10.00 a.m. What will the time be at Buchanan Liberian on longitude 10°W? (3 mks)
3. a) List four characteristics of desert soils. (3 mks)  
 b) Give two factors that contribute to soil leaching. (2 mks)
4. a) Give the two dates of equinoxes. (2 mks)  
 b) State three effects of the rotation of the earth. (3 mks)
5. a) Name the type of delta found at the mouth of:  
 i) River Nile (1 mk)  
 ii) River Omo (1 mk)  
 b) State three conditions necessary for the formation of a delta. (3 mks)

**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. **(2marks)**

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

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

On the rectangle, mark and name the following. **(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)** Differentiate between vulcanicity and volcanicity. **(2 mks)**

**b) i)** Other than lava plateau, list down four features resulting from extrusive volcanic activity. **(4 mks)**

**ii)** Describe how lava plateau is formed. **(5 mks)**

**a)** Explain four ways in which vulcanicity has influenced human activities in Kenya. **(8 mks)**

**d)** You intend to carry out a field study of the landforms around your school.

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

**ii)** State three methods you would use to record the information you would collect.

**(3 mks)**

8. a) Differentiate between weather and climate. (2 mks)
- b) Describe the climatic conditions experienced in the Kenya highlands. (9 mks)
- c) Explain how the following factors influence climate.
- i) Latitude (2 mks)
  - ii) Altitude (2 mks)
  - iii) Aspect (2 mks)
  - iv) Winds (2 mks)
- d) Explain three ways in which vegetation in the Nyika region of Kenya adapts to the climatic conditions experienced in the area. (6 mks)
9. a) Name three places in East Africa where glaciers are found. (3 mks)
- b) Describe how each of the following glacial features are formed.
- i) Arete (4 mks)
  - ii) Pyramidal peak (4 mks)
  - iii) Hanging valleys (4 mks)
- c) Explain five benefits of glaciated landscape to man. (10 mks)
10. a) List three processes through which coasts are eroded. (3 mks)
- b) State two causes of submergence of coasts. (2 mks)
- c) Using well labeled diagrams, explain how each of the following features are formed.
- i) Spit (4 mks)
  - ii) Blow hole (4 mks)
- d) Some students carried out field study on the coastal features found along the coast of Kenya.
- i) State three preparations they made for their study. (3 mks)
  - ii) List three features formed as a result of coastal emergence that they are likely to have studied. (3 mks)
- e) Explain three ways in which features resulting from coastal emergence are of significance to Kenya. (6 mks)

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 7**

312/2

**GEOGRAPHY****PAPER 2**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

- (a) Write your name and index number in the spaces provided above.
- (b) Sign and write the date of the examination in the spaces provided above.
- (c) This paper consists of two sections; A and B.
- (d) Answer all the questions in section A and question 6 and any other two questions in section B.
- (e) Answer all the questions in English.

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



**SECTION A.****Answer all the questions in this section.**

1. a) Name two provinces in Canada where wheat is grown in large scales. (2 mks)  
b) List three social factors that influence agriculture. (3mks)  
c) State two factors that favour mechanization of wheat farming in Canada. (2 mks)
2. a) Name two horticultural crops grown in Kenya. (2 mks)  
b) State three reasons why horticulture is more developed in the Netherlands than in Kenya. (3 mks)
3. a) State three reasons why marine fisheries in Kenya are underdeveloped. (3 mks)  
b) State three ways through which fish farming contributes to the economy of Kenya. (3 mks)
4. a) Name two conditions that are necessary for the formation of petroleum. (2 mks)  
b) List three ways in which open cast mining affects the environment. (3 mks)
5. Apart from desertification, name two other environmental hazards experienced in Kenya. (2 mks)

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

6. The table below shows some of Kenya's imports and exports in 1987. Use it to answer question (a) and (b).

Imports in Tonnes		Exports in Tonnes	
Item	Weight	Item	Weight
Sugar	99,000	Coffee	316,000
Iron & Steel	300,000	Tea	159,000
Fertilizer	84,000	Maize	259,000
Coal	105,000	Soda ash	150,000
Wheat	125,000	cement	225,000
<b>Total</b>	<b>713,000</b>		<b>1,109,000</b>

- a) i) Using a radius of 4cm, draw a pie chart to represent the data of imports shown by the table above. (8 mks)
- ii) State three advantages of using pie charts to represent statistical data. (3 mks)
- b) Explain why Kenya imports sugar and wheat yet she is a producer of the same commodities. (6 mks)
- c) Explain four factors that influence importation and exportation of goods into and out of Kenya. (8 mks)
7. a) Name three types of industries located in the Ruhr region of Germany other than iron and steel. (3 mks)
- b) Explain four factors which led to the growth of iron and steel industry in Ruhr region of Germany. (8 mks)
- c) Explain four ways which Kenya has benefited by assembling motor vehicles locally. (8 mks)
- d) Describe three problems that are experienced in Kenya as a result of industrial development. (6mks)
8. a) Name four sources of electric power other than water. (4 mks)
- b) List five factors that favour location of hydroelectric power plant. (5 mks)
- c) Explain five ways in which Kenya has benefited from the development of a seven forks hydroelectric power scheme. (10 mks)
- d) Explain three problems that Kenya face as a result of over dependence on petroleum. (6 mks)
9. a) State three physical conditions necessary for growing of sugarcane. (3 mks)
- b) Describe commercial production of sugarcane from:
- i) Land preparation to harvesting (6 mks)
- ii) Processing to the marketing of sugar (8 mks)
- c) Geography students from Igoji went for a field study at Mumias sugar factory.
- i) Identify two methods they used to collect data (2 mks)
- ii) Explain three problems they identified facing sugar-cane farmers in Kenya. (6 mks)

- 10. a)** Distinguish between transport and communication. **(2mks)**
- b)** Name three products transported by pipeline. **(3 mks)**
- c)** Explain why there are few railway lines among African countries. **(6 mks)**
- d)** Explain three ways in which Kenya has benefited from her international airports. **(6 mks)**
- e)** Describe four problems facing transport and communication in Africa. **(8 mks)**

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION 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.**

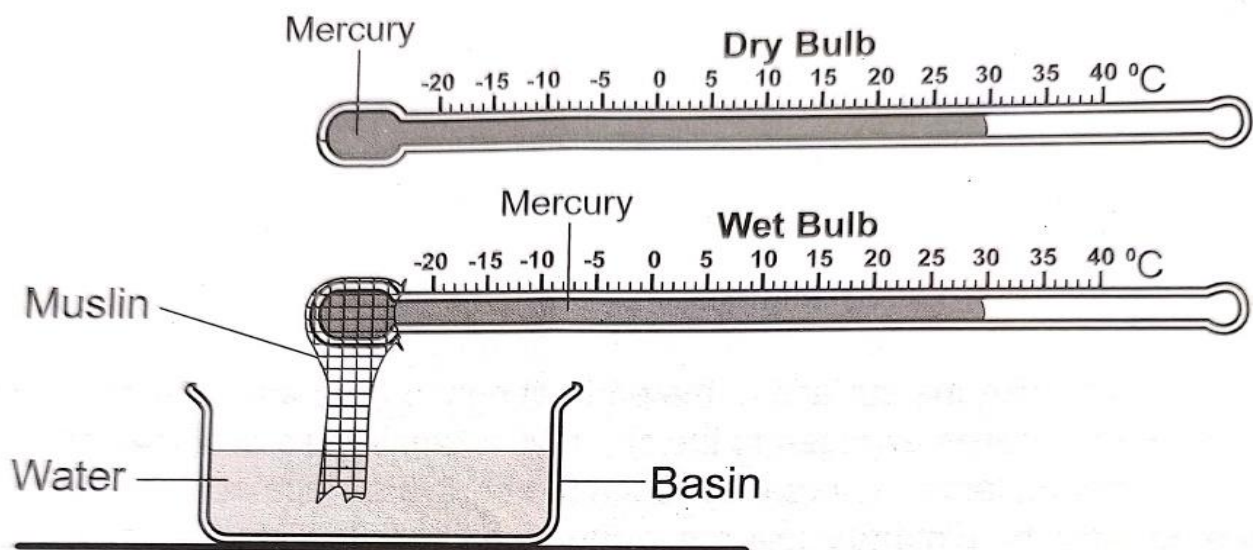
- (a) Write your name and index number in the spaces provided above.
- (b) Sign and write the date of the examination in the spaces provided above.
- (c) This paper consists of two sections; A and B.
- (d) Answer all the questions in section A and question 6 and any other two questions in section B.
- (e) Answer all the questions in English.

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

**SECTION A.**

Answer all questions in this section.

1. (a) Define the term Geomorphology. (2 marks)
- (b) Other than being a career subject, state **three** reasons why it is important for students in secondary school to study geography. (3 marks)
2. The diagram below shows an instrument used in measuring one of the weather elements. Study it and answer the questions that follow.



- (a) Identify; (i) the instrument shown above. (1 mark)
- (ii) the weather element measured using the instrument identified in (a) (i). (1 mark)
- (b) State **three** importance of the weather element identified in (a) (ii) in the atmosphere. (3 marks)
3. (a) Name the temperate grassland found in:
- (i) New Zealand: ..... (1 mark)
- (ii) Central Asia: ..... (1 mark)
- (b) State **three** uses of vegetation. (3 marks)
4. (a) Name **two** output processes in the hydrological cycle. (2 marks)
- (b) State **three** negative influences that rivers have on human environment. (3 marks)
5. (a) Define the term soil. (2 marks)
- (b) State **three** causes of chemical degeneration of soils. (3 marks)

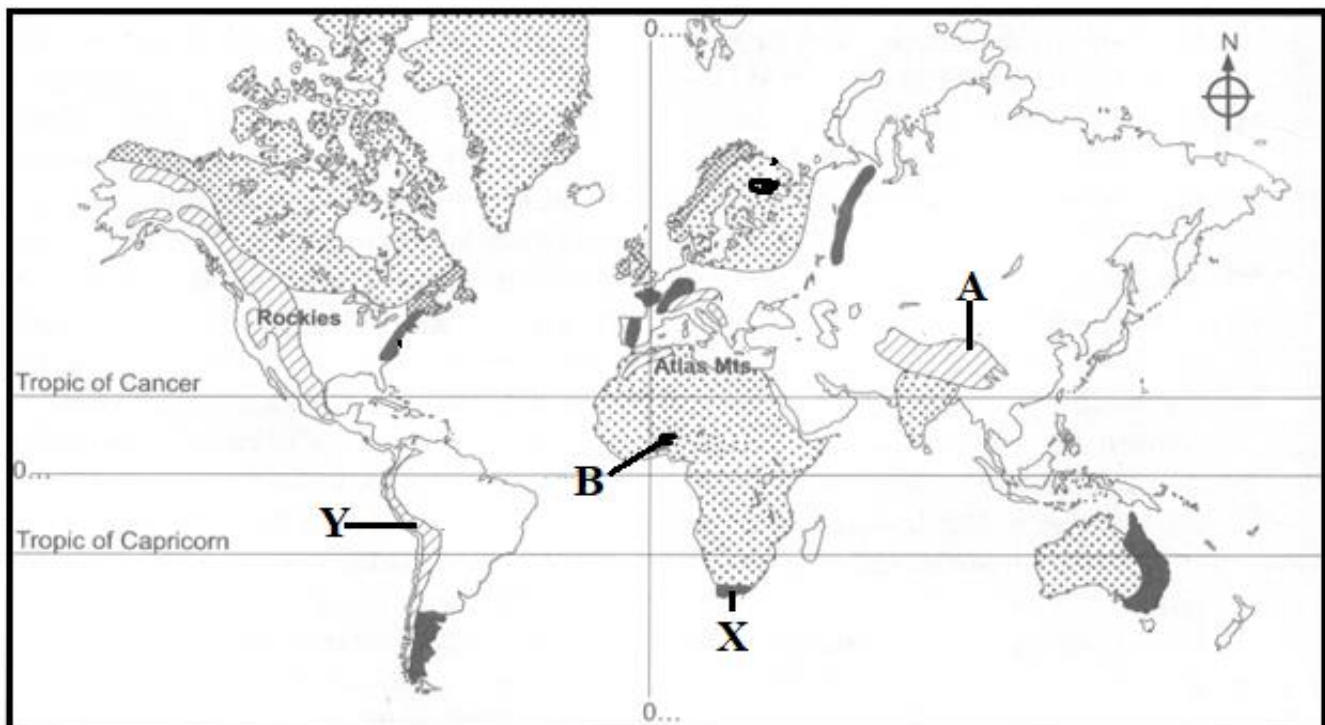
**SECTION B (75 Marks)**

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

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

- (a) (i) Give the longitudinal extent of the area covered by the map. (2 mrks)
- (ii) Name **two** districts in the area covered by the map. (2 marks)
- (b) (i) Calculate the area of Nyeri forest. Give your answer in kilometres. 2 marks)
- (ii) What is the magnetic variation of the area covered by the map. (1 mark)
- (c) Describe the drainage of the area covered by the map. (6 marks)
- (d) (i) Using a scale of 1 cm represents 50 metres, draw a cross-section along northing 64 between easting 68 and 74. 4 marks)
- (ii) On the cross-section, mark and label the following:
- Hill. (1 mark)
  - All weather road loose surface. (1 mark)
  - River. (1 mark)
- (iii) Calculate the vertical exaggeration of the cross-section. (2 marks)
- (e) Citing evidence from the map, identify **three** social functions of the area covered by the map. (3 marks)

**7.** Below is a world map showing the distribution of fold mountains. Use it to answer question (a).





- (a) (i) Name the fold mountains marked **A** and **B**. (2 mrks)
- (ii) Give the orogenies during which the fold mountains marked **X** and **Y** were formed. (2 mrks)
- (b) With the aid of well labelled diagrams, describe the formation of anticlinorium and synclinorium complex of folds. (6 mrks)
- (c) (i) Give **three** features resulting from folding other than fold mountains. (3 mrks)
- (ii) Describe how fold mountains were formed according to the proponents of contraction theory. (3 mrks)
- (d) Explain **two** positive significance of folding to human activities. (4 mrks)
- (e) Your class intends to carry out a field study on folding;
- (i) State **three** ways in which you would prepare for the field study. (3 mrks)
- (ii) Give **two** methods of data collection you would use during the field study (2 mrks)
8. (a)(i) Differentiate between a mineral and a rock. (2 marks)
- (ii) Describe the following characteristics of minerals:
- Tenacity (2 mrks)
  - Streak (2 mrks)
- (b) Describe the process of formation of the following rocks:
- (i) Chemically formed sedimentary rocks. (5 marks)
- (ii) Volcanic ejecta. (4 marks)
- (c) State **four** characteristics of metamorphic rocks. (4 mrks)
- (d) Explain **three** significance of rocks to human activities in Kenya. (6 marks)
9. (a)(i) What is a piedmont glacier? (2 mrks)
- (ii) Give **three** ways through which ice moves. (3 marks)
- (c) (i) Apart from roche moutonnee, name **three** other features formed by glacial erosion in lowlands. (3 marks)
- (ii) Using a well labelled diagram, describe the formation of a roche moutonnee. (6 mks)
- (c) Your class is planning to carry out a field study on features formed by glacial erosion in highlands;
- (i) State **two** objectives you would have for the study. (2 mks)
- (ii) Give **three** qualities of a good questionnaire you would prepare for collecting data. (3 mks)

(d) Explain *three* positive significance of glaciation in lowland areas.

(6 mrks)

10. (a)(i) Define the term denudation.

(2 marks)

(ii) Explain how the following factors influence weathering:

- Mineral composition of the rocks

(2 marks)

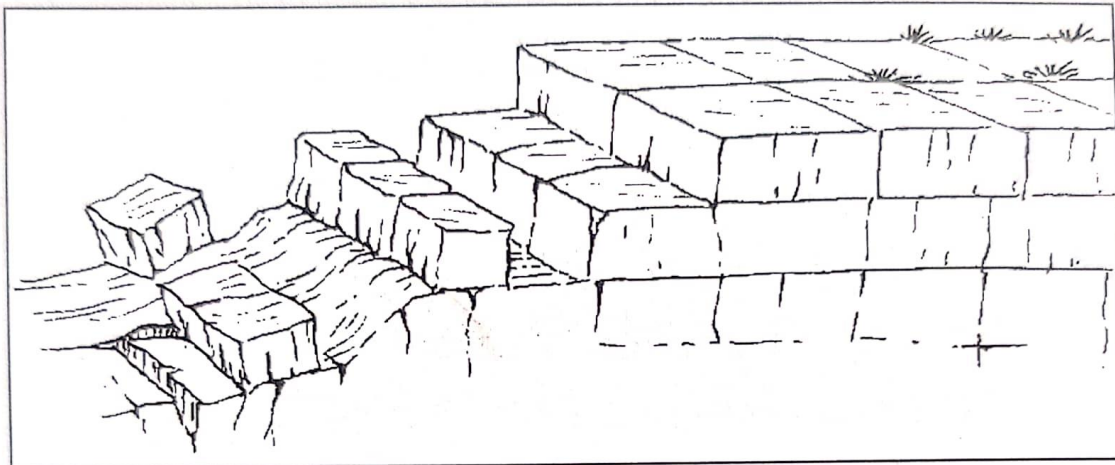
- Colour of the rocks

(2 marks)

- Structure of the rocks

(2 marks)

(b) The diagram below shows a process of mechanical weathering:



(i) Identify the process.

(1 mark)

(ii) Describe how the process occurs.

(5marks)

(c) State *five* evidences of soil creep.

(5marks)

(d) Explain *three* significance of mass wasting on the physical and human environments.

(6marks)

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**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 8**

312/2

**GEOGRAPHY****PAPER 2**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

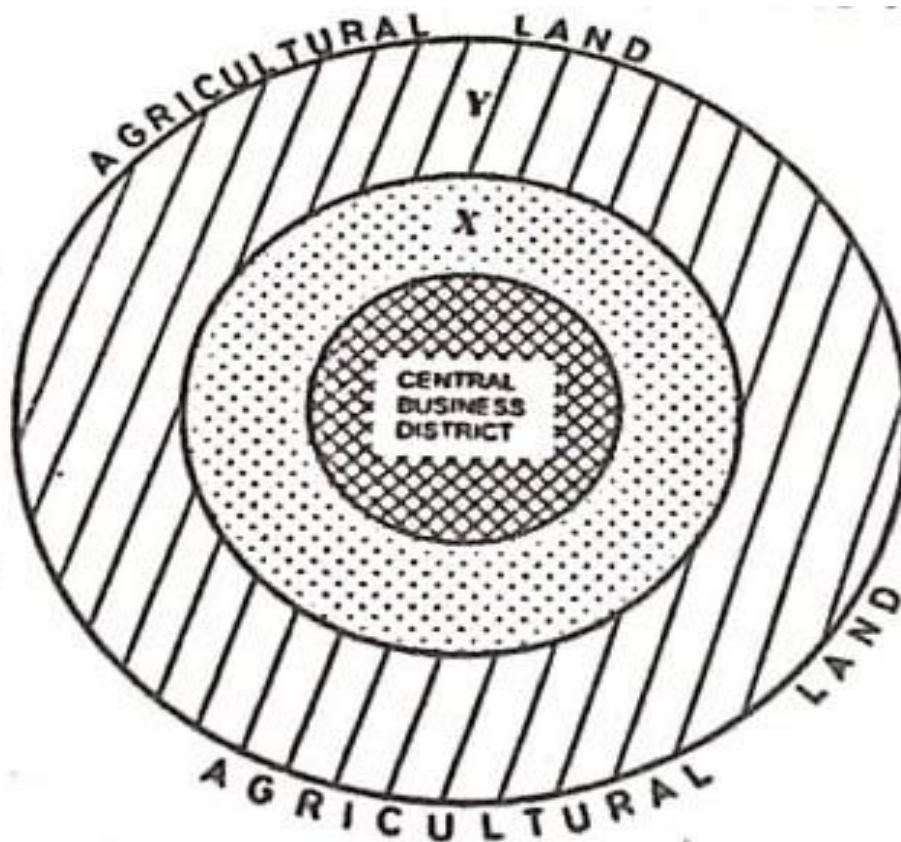
- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.**

**Answer all questions in this section.**

1. (a) Define economic geography (2 marks)  
(b) State **three** reasons why it is important to study human geography (3 marks)
2. (a) Name **two** towns where motor vehicle assembly plants are located in Kenya. (2 marks)  
(b) State **three** ways in which proximity to Nairobi has favoured development of Thika Town. (3 marks)
3. The diagram below represents the functional zones of an urban center.



- (a) Name the zones marked **X** and **Y**. (2 marks)
- (b) Give **three** functions of the Central Business District. (3 marks)
4. (a) Name **two** forest reserves found in the coastal region of Kenya. (2 marks)  
(b) State **three** physical factors that favour the growth of natural forests in the coastal region of Kenya. (3 marks)
5. (a) Differentiate between emigration and immigration. (2 marks)  
(b) State **three** causes of urban to rural migration (3 marks)

## SECTION B

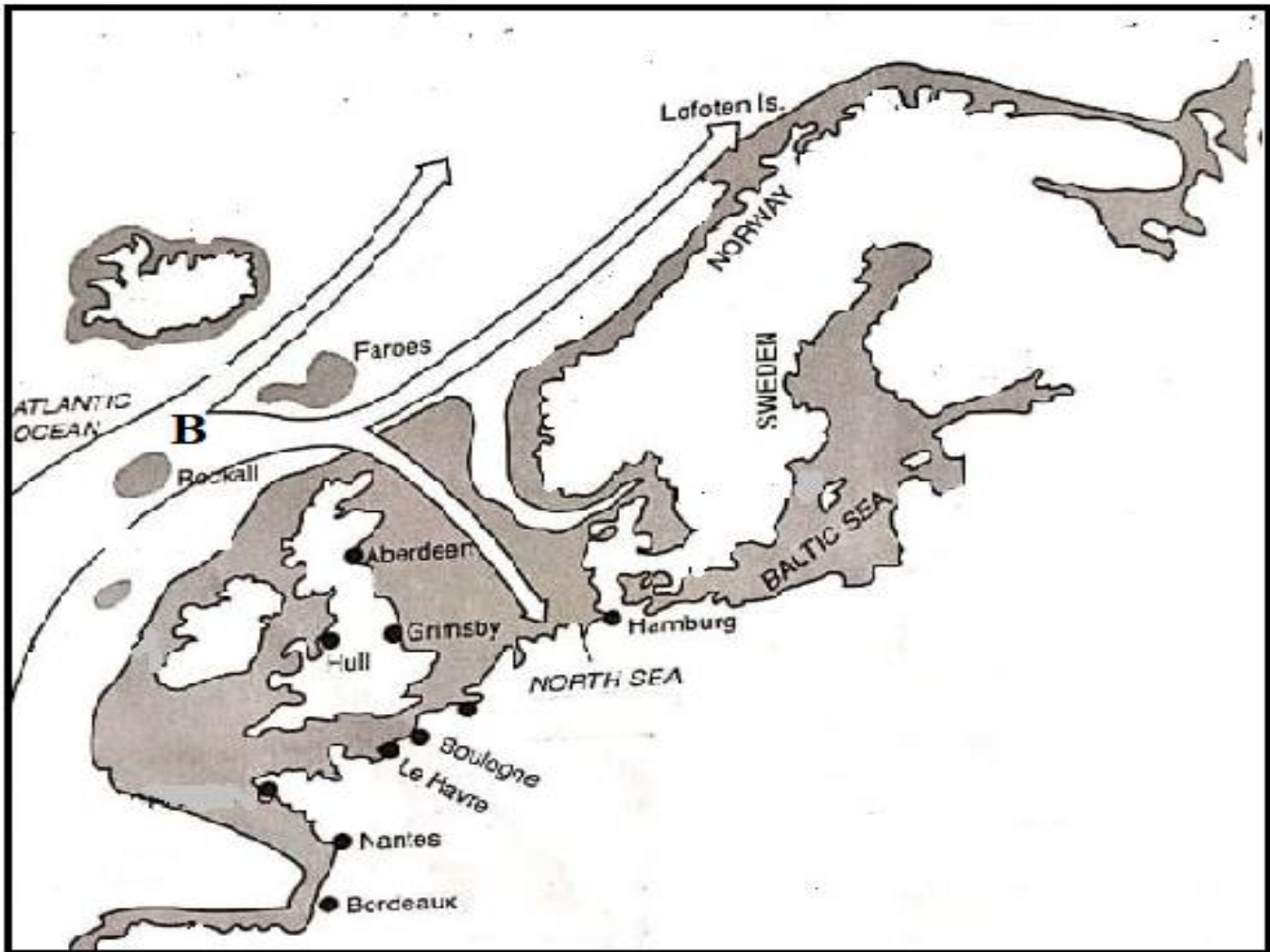
Answer **question 6** and any other **two** questions from this section.

6. (a) The table below passenger traffic that used different modes of transport between Mombasa and Nairobi for the year 2017 to 2020.

MODE OF TRANSPORT	2017	2018	2019	2020
SGR	700,000	1,500,000	1,600,000	1,700,000
BUSES	1,500,000	1,200,000	900,000	800,800
AIR	578,700	686,800	787,500	486,500

- (i) Using a scale of 1cm rep 200,000 people, draw a comparative bar graph to represent data in the table above. **(8 marks)**
- (ii) State **two** disadvantages of using a comparative bar graph to represent the above data. **(2 marks)**
- b) Give **four** reasons why there is limited use of river transport in Africa. **(4 marks)**
- c) Identify any **three** activities involved in the development of St. Lawrence Seaway project. **(3 marks)**
- d) State **four** benefits of the Standard Gauge Railway to the economy of Kenya. **(4 marks)**
- e) Explain how the following factors have negatively affected development of transport and communication in Africa
- Rugged Terrain **(2 marks)**
  - Civil wars **(2 marks)**
7. (a) (i) Define the term Fisheries. **(2 marks)**
- (ii) Give **four** measures the Government has taken to conserve fresh water fisheries in Kenya. **(4 marks)**
- b) (i) Explain ways in which each of the following factors affect fishing in Kenya;
- Technology **(2 marks)**
  - Fish eating culture **(2 marks)**
- (ii) Describe how trawling method is used in catching Fish **(4 marks)**

c) Study the Map below and use it to answer question 7 (c) (i) to (iii)



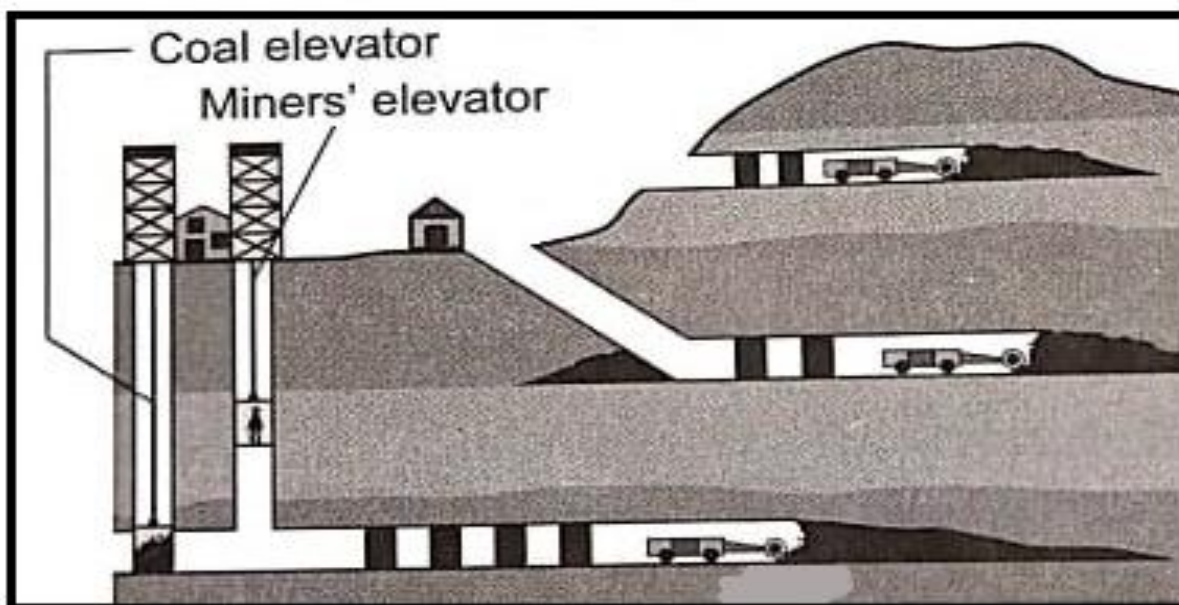
- (i) Give **two** fish species caught in the above fishing ground (2 marks)
- (ii) Name the ocean current marked **B** (1 mark)
- (iii) Explain how the above ocean current influences fishing in the above fishing ground (2 marks)
- d) Explain the significance of fishing in Japan. (6 marks)
8. (a) (i) Define the term balance of trade. (2 marks)
- (ii) Name **two** major imports to Kenya from European Union (2 marks)
- b) State **four** factors that inhibit trade between Kenya and her neighbours. (4 marks)
- c) Explain how the following factors influence trade in Kenya.
- Security (2 marks)
  - Transport (2 marks)
- d) (i) Name **two** member states of ECOWAS. (2 marks)



- (ii) Give **three** roles played by SADC in the economies of her member states **3 marks)**
- (iii) Explain the measures the government of Kenya has taken to reduce her unfavourable balance of trade. **(8 marks)**

9. (a) (i) Differentiate between domestic dairy farming and commercial dairy farming. **(2 marks)**
- (ii) Name **two** breeds of dairy cattle reared in Kenya. **(2 marks)**
- b) (i) Give **four** characteristics of dairy cattle breeds reared in Kenya. **(4 marks)**
- (ii) Name **three** counties where dairy farming is practiced in large scale in Kenya. **(3 marks)**
- (iii) State **three** physical factors favouring dairy farming in Kenya **(3 marks)**
- c) Give reasons why Kenya's dairy sector fails to meet its domestic demand. **(5 marks)**
- d) State **three** differences between dairy farming in Kenya and Denmark. **(6 marks)**

- 10.a) Give **three** ways in which minerals occur. **(3 marks)**
- b) Explain **three** factors that influence the mining of trona in Lake Magadi **(6 marks)**
- c) Study the diagram below and use it to answer question c (i) and (ii)



- (i) Identify the mining method shown on the diagram above (1 mark)
- (ii) Describe how the method is used to extract minerals (5 marks)
- (d) Explain **three** effects of mining on the environment (6 marks)
- (e) Maranda high school students carried out a field study on the processing of trona on Lake Magadi.
  - (i) Identify **two** methods they will use in recording data (2 marks)
  - (ii) Give **two** follow up activities they may have carried out (2 marks)

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION 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.**

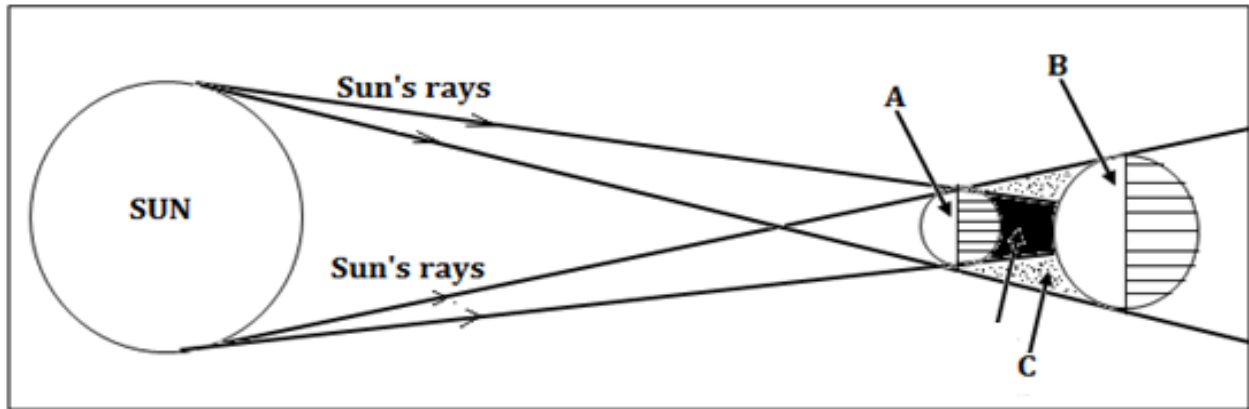
- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

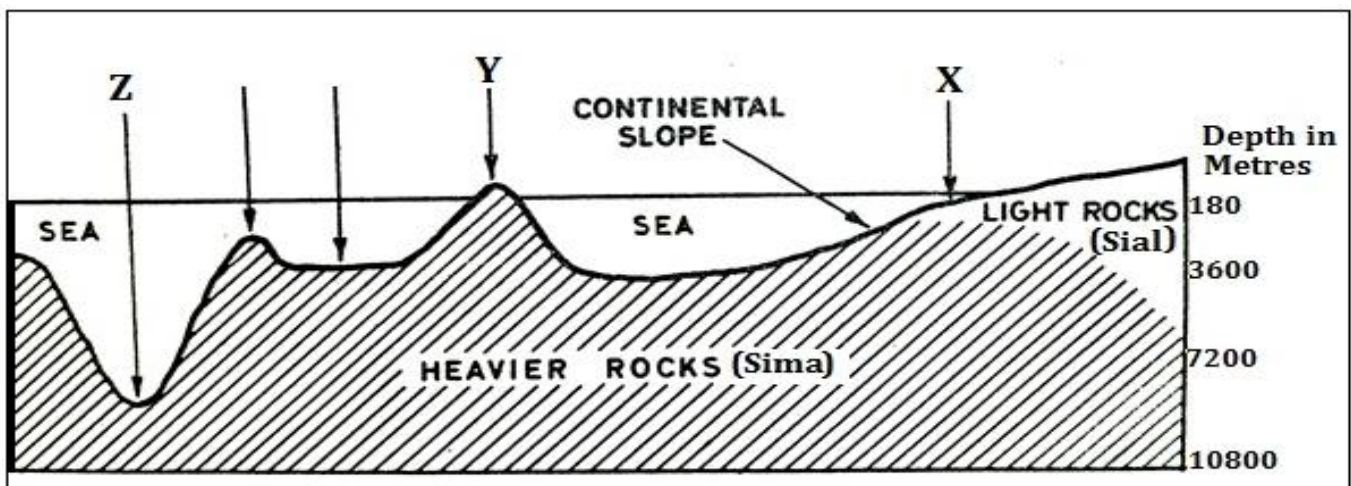
**SECTION A.**

Answer all questions in this section.

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.*

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

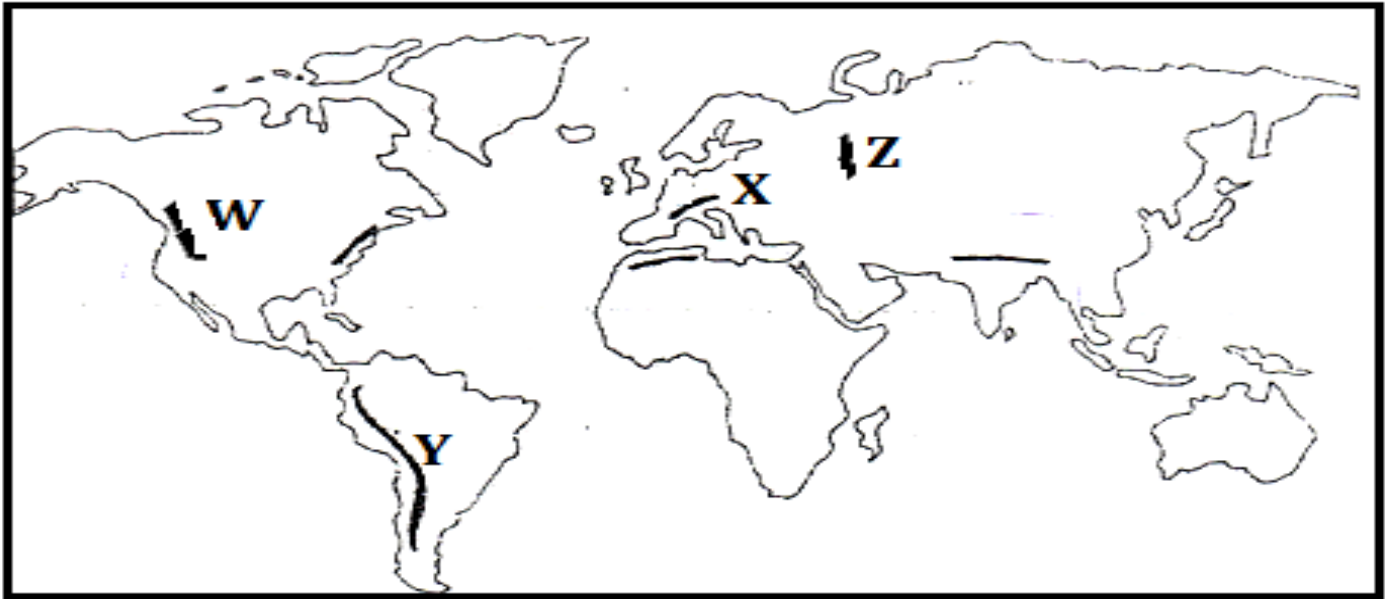
- (a)(i) Give the *six figure* grid reference of the forest Guard Post in Nyeri forest. (2 marks)
- (ii) Name the adjoining sheet to the south East of the map (1 marks)
- (iii) What is the general direction of the flow of river Chanya? (1 mark)
- (b) (i) Using a vertical scale of *1cm* to represents *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 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 9**

312/2

**GEOGRAPHY****PAPER 2**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.****Section A: Answer All Questions In This Section**

- 1.a)** What is Human Environment? (2Marks)
- (b)** Areas of study under Human Environment. (3 Marks)
- 2(a)** Give two reasons why pastoralists keep large herds of animals. (2 Marks)
- b)** Give three ways in which the government of Kenya assist nomadic pastoralists (3 Marks)
- 3(a)** What is a derelict land? (2 Marks)
- (b)** State three causes of land dereliction. (3 Marks)
- 4(a)** State three problems facing coffee in Kenya. (3 Marks)
- (b)** Outline two benefits of coffee farming in **Brazil** (2 Marks)
- 5. (a)** A photograph is divided into three main parts. Name them. (3 Marks)
- (b) State** two limitations of using photographs. (3 Marks)

**SECTION B: Answer question 6 and any other two questions in 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 questions (a)

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

- a)(i)** Draw a divided rectangle 16cm long to represent the prices of sugar in the year 2016 (8Marks)
- (ii)** State **two** advantages of using divide rectangle to present statistical data (2Marks)
- (b)** Give **three** physical factors that influence the growing of sugar cane in Kenya (3 Marks)
- ( c ).** Describe the stages involved in processing of sugarcane at the factory (7Marks)
- d).** State five challenges facing sugar farming in Kenya (5 Marks)

- 7(a) (i)** Distinguish between a forest and forestry. (2Marks)
- (ii)** Name **two** indigenous softwood trees species found in Kenya (2Marks)
- (b)(i)** Characteristics of planted forests (3Marks)
- (ii)** Name **two** forest reserves in West of the Rift valley of Kenya (2 Marks)
- b) (i)** State **four** characteristics of temperate hardwood forests. (4Marks)
- (ii)** Explain any **three** problems which have limited exploitation of tropical hardwood forests in Africa (6Marks)
- c)** Give the difference between exploitation of softwood forests in Kenya and Canada under the following headings:
- i)** Trees species (2Marks)
- (ii)** Mode of exploitation (2Marks)
- (iii)** Marketing of products (2Marks)
- 8.a)** Define the term mineral (2Marks)
- b) i)** Name **two** areas in South Africa where diamond is mined (2Marks)
- ii)** Give **four** ways in which minerals occur (4Marks)
- c) i)** Explain **Three** negative effects of mining on the environment (6Marks)
- ii)** Identify any **two** main methods of mining (2Marks)
- iii)** Name a port through which minerals in East Africa are exported (1 Mark)
- d.** Explain **four** ways in which soda ash contributes to the economy of Kenya) (8Marks)
- 9. (a) i.** Name **three** exotic breeds of cattle reared in commercial ranches in Kenya. (3Marks)
- (ii )**. Explain **three** problems facing commercial beef farming in Kenya. (6 Marks)
- (b).** State **four** physical factors that favour dairy farming in the Kenya highlands (4Marks)
- c.( i).** Apart from fresh milk name three other dairy **products** (3 Marks)
- (ii)** Explain **four** ways in which dairy farming in Kenya is different from dairy farming in Denmark. (8Marks)

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 10**

312/1

**GEOGRAPHY****PAPER 1**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

- (a) *White your name and index number in the spaces provided above.*
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- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

SECTION	QUESTIONS	MAXIMUM SCORE	SCORE
A	1-5	25	
B	6	25	
		25	
		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 **three** types of soil degeneration. (3mks)
5. a) Name the type of delta found at the mouth of: [2mks]
- i. River Nile
  - 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 Nyeri 1:50 000(sheet 120/4) provided and answer the following questions.
- a) i) Identify two types of scale used in the map. (2mks)  
ii) Give six figure grid reference of trigonometric station 120TT27 in the North Western part of the area covered by the map. (2mks)
- b) i. Give the longitudinal and latitudinal extend of the area covered by the map. (2mks)  
ii. Measure the length of all-weather road loose surface from Easting 57 to Easting 66. Give your answers in kilometres. (2mks)  
iii) Draw a rectangle 12cm by 16cm to represent the area enclosed by easting 64 and 67 and Northing 51 and 55. in the rectangle, mark the following: (5mks)
- Nyeri Hill Forest



- River Chanya
- Trigometrical Station 120T19
- Kagundu School

iv. Citing evidence from the map, identify three economic activities carried in the area. **(6mks)**

c) Explain three factors that have influenced settlement in the area covered by the map. **(6mks)**

**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 influence 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 of water 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 a field 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 place of 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)

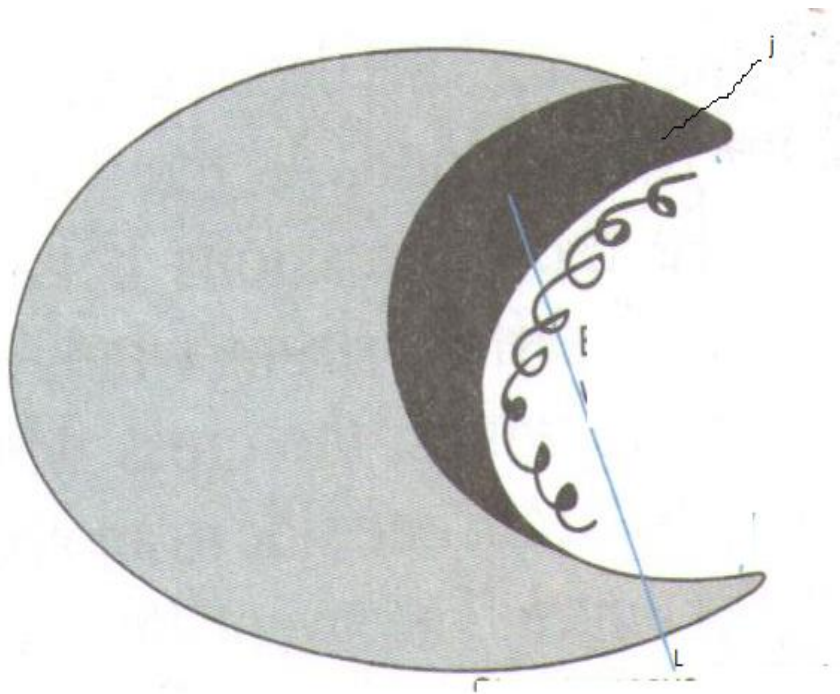
10. a) Name three major desert found in Africa. [3mks]

- 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 a desert. Use it to answer questions below;



- i. Name the above feature. (1mk)
- ii. Name the parts marked J and L (2mks)

**KCSE 2023 TOP SCHOOLS' MOCKS****EXAMINATION TRIAL 10**

312/2

**GEOGRAPHY****PAPER 2**

TIME: 2¾ HOURS

NAME.....

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

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

*Kenya Certificate of Secondary Education.***INSTRUCTIONS TO CANDIDATES.**

- (a) *White your name and index number in the spaces provided above.*
- (b) *Sign and write the date of the examination in the spaces provided above.*
- (c) *This paper consists of two sections; A and B.*
- (d) *Answer all the questions in section A and question 6 and any other two questions in section B.*
- (e) *Answer all the questions in English.*

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

**SECTION A.****Answer all questions in this section.**

1. a) Identify two hard wood tree species in Kenya. (2 mks)  
b) Give two ways in which tree harvesting in Kenya differ from that of Canada. (4 mks)
2. a) Name two tourist attractions along the Kenyan coast. (2 mks)  
b) State two physical factors that attract tourists in Switzerland. (2 mks)
3. a) Name two exotic breeds of dairy cattle reared in Kenya. (2 mks)  
b) State three physical conditions that favour dairy farming in Kenya. (3 mks)
4. a) Name two prairies provinces of Canada where wheat is grown on large scale. (2mks)  
b) Give three physical conditions that favour large scale wheat farming in prairies provinces of Canada. (3 mks)
5. a) What is a polder? (2 mks)  
b) Name three crops grown in the polders. (3 mks)

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

6. The table below shows the number of tourists who visited Kenya from various parts of the world in 2005 and 2006. Use it to answer questions (a) and (b).

Place of origin	No. of tourist per year	
	2005	2006
Europe	942,000	965,000
Africa	120,000	154,000
Asia	97,000	128,000
North America	94,000	103,000
Australia & New Zealand	19,000	24,000
All other countries	29,000	41,000
<b>Total</b>	<b>1,301,000</b>	<b>1,415,000</b>

- a) i) Which continent had the highest increase in the number of tourist visiting Kenya between 2005 and 2006. (2 mks)
- ii) Calculate the percentage increase of tourist from Australia & New Zealand between 2005 and 2006. (2 mks)
- iii) Draw a divided rectangle of 15cm long to represent the number of tourist that visited Kenya in 2005. Show your working. (10 mks)
- b) i) State two advantages of using divided rectangle to represent geographical data. (2 mks)
- ii) Give four reasons why in 2005 and 2006 there were more tourist visiting Kenya from Europe compared to those from other part of world. (4 mks)
- c) Give five reasons why domestic tourism is being encouraged in Kenya.

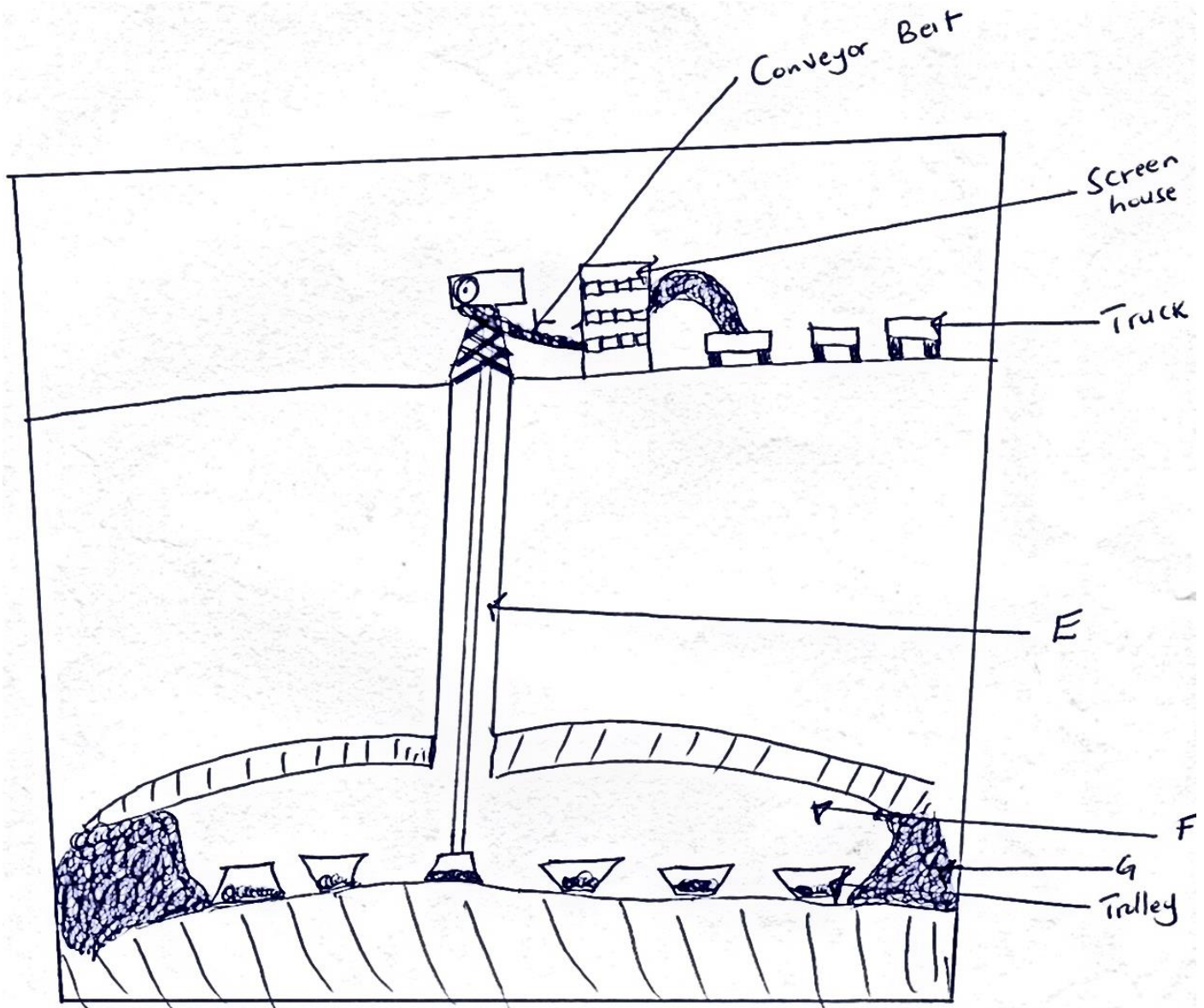
7. a) The table below shows the quantity of minerals produced in Kenya in tonnes between year 2001 and 2005. Use it to answer questions a (i) and (ii).

Minerals/year	2001	2002	2003	2004	2005
Soda ash	297,780	304,110	352,560	353,835	360,161
Fluorspar	11,885	85,015	80,201	117,986	109,594
Salt	5,664	18,848	21,199	31,139	26,595
Others	6,093	7,000	4,971	6,315	8,972

**Source: Survey 2006**

- i) Calculate the average annual production of soda ash over the 5 year period. (2 mks)
- ii) Calculate the total mineral production for the year 2003. (1 mk)
- iii) Give three uses of soda ash. (3 mks)

b) The diagram below shows shaft mining.



i) Name the parts marked E, F, G.

(3 mks)

ii) State two problems associated with shaft mining.

(2 mks)

c) Explain four ways in which gold mining has contributed to the economy of South Africa. (8 mks)

d) Explain three negative effects of mining on the environment.

(6 mks)

8. a) Name three cocoa growing areas in Ghana.

(3 mks)

b) i) Outline the stages involved in the processing of cocoa from harvesting to the time it is



- ready for export. (6 mks)
- ii)List four problems experienced by cocoa farmers in Ghana. (4 mks)
- c)State four physical conditions necessary for growing of cocoa. (4 mks)
- d)You intend to carry out a field study on agricultural activities around your school.
- i)State four preparations that you would make for your study. (4 mks)
- ii)Give four following activities you would carry out after the field **study**. (4 mks)
9. a)Differentiate between land reclamation and land rehabilitation. (2 mks)
- b)State three methods used in reclaiming land in Kenya. (3 mks)
- c)State three methods used to control tsetse flies in Lambwe valley in Kenya. (3 mks)
- d) i)Explain four physical conditions favouring rice growing in MweaTebere Irrigation Scheme. (8 mks)
- ii)Describe the stages in the reclamation of land from the sea in Netherlands. (7 mks)
- iii)Name two major projects involved in reclaiming land in **Netherlands**. (2 mks)
10. a)i)Define fisheries. (2 mks)
- ii)Name two countries in Southern Africa that are important for marine fish production. (2 mks)
- b)Explain four factors that favour fishing in Japan. (8 mks)
- c)Describe purse seining as a method of fishing. (6 mks)
- d)i)State four problems experienced in the marketing of fish in Kenya. (4 mks)
- ii)State three ways in which the Kenya government is promoting fishing industry in the country. (3 mks)

***All the Best!***

***THE END***

## **FOR THE FOLLOWING;**

- ❖ ONLINE TUITION
- ❖ REVISION NOTES
- ❖ SCHEMES OF WORK
- ❖ SETBOOKS VIDEOS
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- ❖ QUICK REVISION KITS
- ❖ KCSE TOPICALS
- ❖ KCSE PREMOCKS
- ❖ TOP SCHOOLS PREMOCKS
- ❖ JOINT PREMOCKS
- ❖ KCSE MOCKS
- ❖ TOP SCHOOLS MOCKS
- ❖ JOINT MOCKS
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***SUCCESS***