

# GEOGRAPHY PP1 2024 KCSE MOCK

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**SERIES 1 PAPER TOP RANK KCSE MOCK 2024**

312/1  
**GEOGRAPHY Paper 1**  
**Time: 2 ¾ Hours**

**Kenya Certificate of Secondary Education (K.C.S.E)**

**Instructions to Candidates:**

- Write your name and admission number on the spaces provided above.
- This paper has **two** sections: **A** and **B**.
- Answer **all** questions in section **A**.
- In section **B**, answer **question6** and any **other two** questions.

**FOR EXAMINERS USE ONLY**

**SECTION A**

Question number	1	2	3	4	5	Sub Total
Marks						

**SECTION B**

Question number	6	7	8	9	10	Sub Total
Marks						

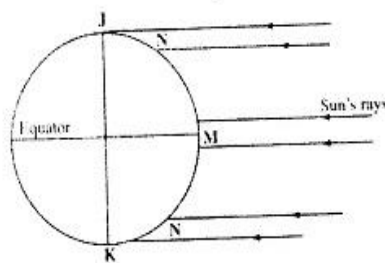
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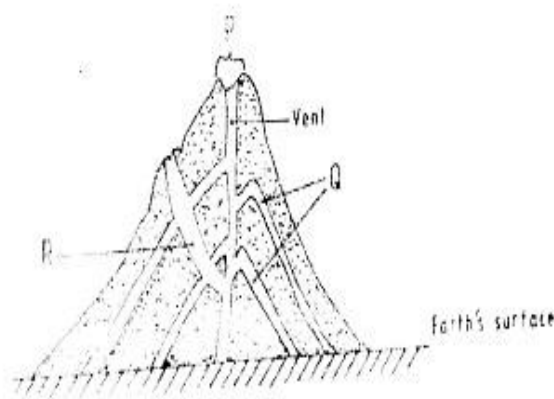
**SECTION A**

*Answer ALL Questions in this Section*

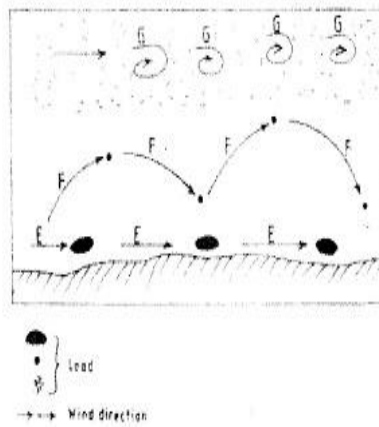
1. The diagram below shows the angles of the sun's rays at different latitudes when the sun is at the equator.  
Use it to answer questions (a) (b).



- (a) Name the parts of the earth's surface marked **J** and **K**. (2 marks)  
(b) Give two reasons why the intensity of the insolation is higher at M than at N. (2 marks)
2. (a) What is weathering? (2 marks)  
(b) Give **three** factors that influence the rate of weathering. (3 marks)
- 3 The diagram below shows a composite volcano.



- (a) Name the features marked P, Q and R. (3 marks)  
(b) How is a parasitic cone formed? (3 marks)
4. (a). What is land breeze? (2 marks)  
(b). Give two ways in which sea breezes influence the adjacent land. (2 marks)
- 5.



- (a). Name the three ways labelled E,F and G. (3 marks)
- (b). Name three features produced by wind abrasion in arid areas. (3 marks)

### SECTION B

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

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

- (a) i) Convert the ratio scale into statement scale. (2 marks)
- ii) Identify two methods that have been used to represent relief on the map. (2 marks)
- iii) Name three physical features found in grid square 0298. (3 marks)
- (c) i) Give the six figure grid reference of the Air Photo Principal point to the East of Obumba School. (2 marks)
- (c) Describe the drainage of the area covered by the map. (4 marks)
- (d) i) Citing evidence, name three social services offered in the area covered by the map. (6 marks)
- ii) Explain three factors that may have influenced the distribution of settlements in the area. (6 marks)
7. (a) Describe the following characteristics of minerals
- (i) Colour (2 marks)
- (ii) Cleavage (2 marks)
- (iii) Hardness (2 marks)
- (b) (i) Give two types of igneous rocks. (2 marks)
- (ii) Explain three conditions necessary for the growth of coral polyps. (6 marks)

(c) State four uses of rocks. (4 marks)

(d). You are planning to carry out a field study on the rocks within your school environment

(i) Give two secondary source of information you would use to prepare for the field study.

(2 marks)

(ii) State why you would need the following items during the field study:

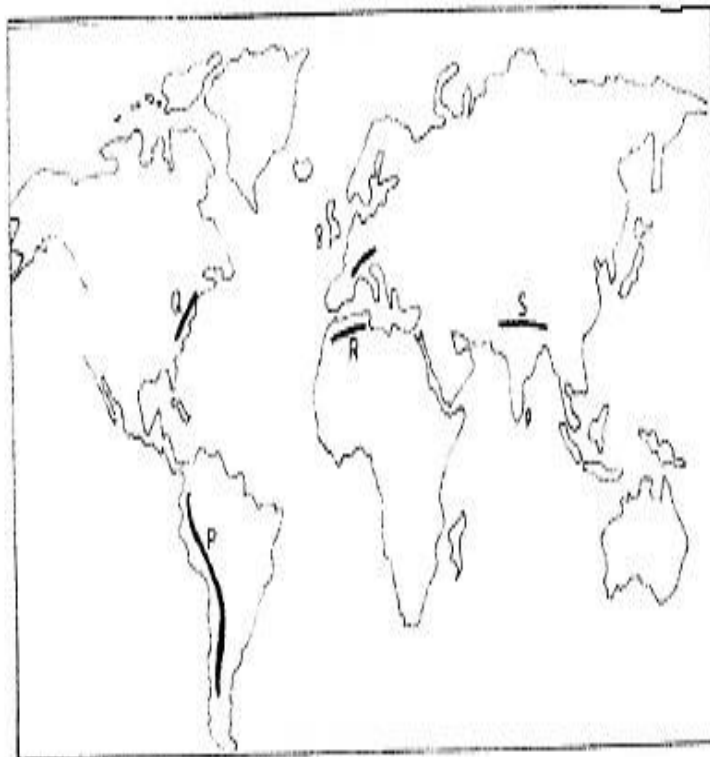
- A fork jembe (1 mark)

- A polythene bag (1 mark)

(iii). Suppose during the field study you collected: Marble, sandstone and granite, classify

each of these samples according to its mode of formation. (3 marks)

8. The map below shows the location of some mountain ranges.



(a). Name the ranges marked P , Q, R and S. (4 marks)

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

(ii). With the aid of labelled diagrams, describe how fold mountains are formed. (10 marks)

(d) Explain the significance of fold mountains to human activities (8 marks)

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

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

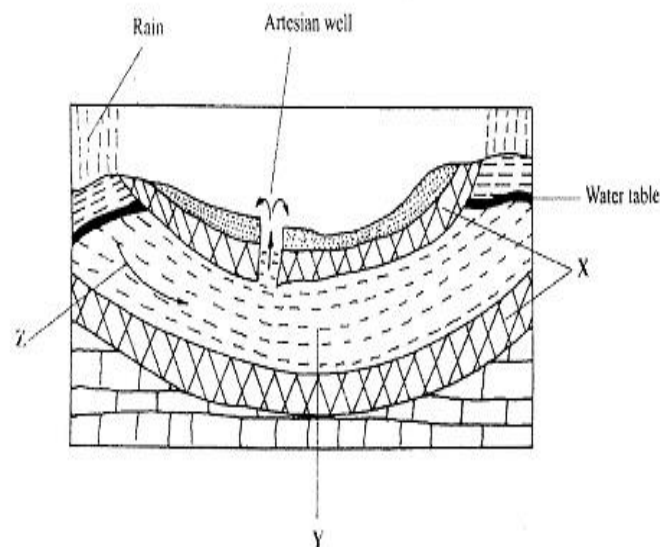
(iii) Name the **three** ocean currents along the western coast of Africa (3 marks)

(b). (i) State **three** characteristics of submerged lowland coasts. (3 marks)

(ii) Explain **three** factors that determine the rate of coastal erosion. (6 marks)

(c). With the aid of labelled diagrams, describe the process through which a stack is formed. (8 marks)

10. The diagram below represents an artesian basin. Use it to answer question (a)



(a) Identify:

(i) The layers marked **X** and **Y** (2 marks)

(ii) The process marked **Z** (1 mark)

(b) Explain how the following factors influence the amount of underground water in limestone areas:

(i) Rainfall (4marks)

(ii) Vegetation cover (4 marks)

(c)

(i) Apart from stalagmites, name three other underground features formed in limestone areas.

(3 marks)

(ii) With the aid of a diagram, describe how a stalagmite is formed (8 marks)

(d) Give three reasons why there are few settlements in karst landscapes. (3 marks)

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**SERIES 2 PAPER TOP RANK KCSE MOCK 2024**

312/1

**GEOGRAPHY PAPER 1**

TIME: 2  $\frac{3}{4}$  HOURS

**INSTRUCTION TO CANDIDATES.**

- This paper consist of **TWO sections A and B**
- Answer **all** questions in section A
- Answer question six and any other two questions from section B

**For examiner's use only**

QUESTIONS							CANDIDATE'S TOTAL SCORE
CANDIDATE'S SCORE							

### SECTION A

1. a. Name three components of the solar system (3mks)  
b. Give two weakness of the nebular cloud theory (2mks)
2. a. What is lunar eclipse (2mks)  
b. Give the two dates of the year when **equinoxes** is experienced (2mks)
3. a. What is a sea breeze? (2mks) ...  
b. Give the four main zones of the earth's atmosphere (4mks)
4. a. Name three man-made lakes in Kenya (3mks)  
b. State two reasons why some Rift valley lakes in Kenya have saline water (2mks)
5. a. Define the term climate (2mks)  
b. Mention any three consequences of climate changes (3mks)

### SECTION B

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

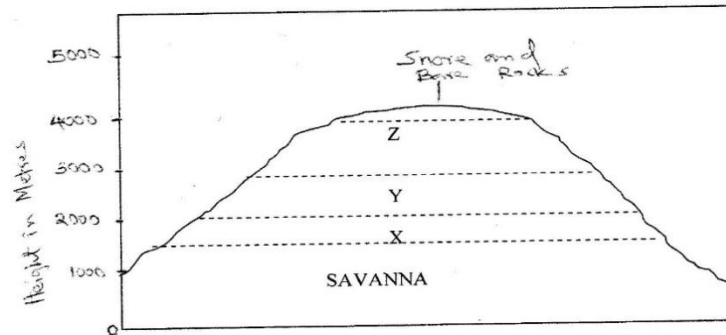
6.a. Study the map of Kisumu East (1:50,000) Kenya sheet 116/2 provided and answer the following questions.

- i) What is the title of the map? (1mk)
  - ii) identify two types natural vegetation in the area covered by the map. (2mks)
  - iii) Identify three man made features in grid square 0494. (3mks)
- b. i) draw a rectangle to represent the area enclosed by Eastings 04 to 07 and Northings 85 to 87.  
Enlarge it **twice** marking and naming following features; (5mks)
- road c544
  - ditch
  - swamp
  - footpath



- ii) Give the new scale of the enlarged section. (2mks)
- c. i) Calculate the bearing of Ranjira school from the air Photo principal point (04) at grid reference 0986. (2mks)
- d. Identify four drainage features in the area covered by the map. (4mks)
- e. Citing evidence from the map, explain three human factors that are likely to favour agriculture in the area covered by the map. (6mks)
7. (a) (i) Apart from surface run off, give **two** other processes in the hydrological cycle. (2 marks)
- (ii) State **three** factors that determine the amount of surface run off. (3 marks)
- (b) Explain **three** factors that influence the transportation of materials by a river. (6 marks)
- (c) (i) What is river rejuvenation? (2 marks)
- (ii) Explain **three** conditions that lead to rejuvenation of a river. (6 marks)
- (d) Explain **three** negative effects of rivers to the human environment. (6 marks)
8. (a) Name **one** fold mountain in:
- (i) Asia (1mk)
- (ii) North America (1mk)
- (iii) South Africa (1mk)
- (b) (i) Apart from fold mountains, name three other features resulting from folding. (3mks)
- (ii) With the aid of labeled diagrams, describe the formation of an over thrust fold (5mks)
- (c) Explain **four** effects of fold mountains on human activities . (8mks)
- (d) Students are planning to carry out a field study on landforms in their conty.
- (i) State **three** ways in which the students would prepare themselves for the field study. (3mks) (ii) Give **three** advantages of studying landforms through field work (3mks)

9. The diagram below represents zones of natural vegetation on a mountain use it to answer questions



- (a) (i) In your answer booklet, name the zones marked X,Y and Z (3mks)
- (ii) Describe the characteristics of tropical Savannah vegetation (5mks)
- (iii) State **two** reasons why the mountaintop has no vegetation (2mks)
- (b) Explain **three** factors that have led to a decline of the natural grassland in Kenya.(6mks)
- (c) Suppose you were to carry out a field study on the relationship between vegetation and altitude
- (i) State **three** hypotheses you would formulate for your study (3mks)
- (ii) State **four** methods you would use to record the information collected during the field study (4mks)
- (iii) Name the type of map you would draw to present your findings. (2mks)
- 10(a) Name two types of submerged coasts (2mks)
- (b) Explain how the following factors determine the effectiveness of wave erosion along a coast
- (i) Nature of the material transported by waves (3mks)
- (ii) Nature of the coastal rocks (3mks)
- (c) With the aid of labeled diagrams, describe the process through which a stack is formed (7mks)
- (d) (i) State four conditions that favour the growth of coral. (4mks)
- (ii) Explain three ways in which coral contributes to the economic development of Kenya. (6mks)

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**SERIES 3 PAPER TOP RANK KCSE MOCK 2024**

**GEOGRAPHY 312/1**

**Time: 2 hrs 45 min**

***Instructions***

1. *This paper consists of two sections A and B*
2. *Answer all the questions in section A*
3. *Answer question 6 and any other **two** questions from section B.*
4. *Candidates should answer the questions in English.*

**FOR EXAMINER'S USE ONLY**

Section	Questions	Maximum Score	Candidate's Score
A	1 - 5	25	
B	6	25	
		25	
		25	

**SECTION A**

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

- 1 a) Give the forces which have contributed to the geoid shape of the Earth (3 marks)
- b) Name the minerals that make up the core of the Earth (2 marks)
- 2 a) Give **three** causes of earthquakes (3 marks)
- b) Name **two** major earthquakes zones of the world (2 marks)
- 3 a) Apart from aspect, list **three** other factors that influence the distribution of natural vegetation (3 marks)
- b) State **two** ways through which aspect influences the distribution of natural vegetation (2 marks)
- 4 a) State **three** conditions necessary for the development of Karst scenery (3 marks)
- b) Give **two** reasons why there are few settlements in Karst landscapes (2 marks)
- 5 a) Give **two** causes of river rejuvenation (2 marks)
- b) Identify **three** features that result from river rejuvenation (3 marks)

#### SECTION B

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

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

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

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

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

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

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

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

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

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

- i) State **three** findings they are likely to have come up with (3 marks)
- ii) Give **three** advantages of studying rivers through field work (3 marks)

7 a) i) What is a rock? (2 marks)

ii) Give **two** examples of plutonic igneous rocks (2 marks)

b) Describe the processes of formation of each of the following types of sedimentary rocks:

i) Mechanically formed (4 marks)

ii) Organically formed (4 marks)

c) State five characteristics of rocks (5 marks) d) You are planning to carry out a field study on rocks within the local environment.

i) List **three** methods you would use to collect data (3 marks)

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

iii) Give **two** economic uses of rocks. (2 marks)

8. a) i) Apart from an over thrust fold, name **three** other types of folds (3 marks)

ii) Describe the formation of an over thrust fold (6 marks)

b) i) Name the young fold mountains found in the following continents

- Africa (1 mark)
- Europe (1 mark)
- Asia (1 mark)
- North America (1 mark)

ii) Apart from Fold Mountains, name four other features resulting from folding. (4 marks)

c) Explain **four** effects of folding on physical environment (8 marks)

9 a) i) Define an ocean (2 marks)

ii) Explain the **three** causes of variation in the amount of salt in ocean water (6 marks)

b) i) Identify **three** processes involved with wave erosion (3 marks)

ii) With the aid of well labelled diagrams, describe the process through which a wave cut platform is formed (8 marks)

c) You intend to carry out a field study on types of features resulting from wave deposition along the coast

i) Identify **three** methods you would use to record data (3 marks)

ii) Give **three** depositional features you are likely to observe during field study (3 marks)

10 a) i) What is soil structure (2 marks)

ii) Explain how the following factors influence soil formation

- Time (2 marks)

- Parent rock (2 marks)
- b) Describe the following properties of soil
- Soil texture (2 marks)
  - Soil porosity (2 marks)
  - Soil colour (2 marks)
- c) State **four** negative effects of soil erosion (4 marks)
- d) You are planning to carry out field study on soil around your school
- i) State **four** preparations that you will make for the study (4 marks)
  - ii) Give **three** reasons why it is important to study soils through the field study (3 marks)

**THE END**

NAME.....ADM.....  
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**SERIES 4 PAPER TOP RANK KCSE MOCK 2024**

**312/1GEOGRAPHY PAPER 1**

**FORM FOUR EXAM**

*Kenya Certificate of Secondary Education. (K.C.S.E)*

**Geography paper 1**

**312/1**

**INSTRUCTIONS TO**  
**CANDIDATES**

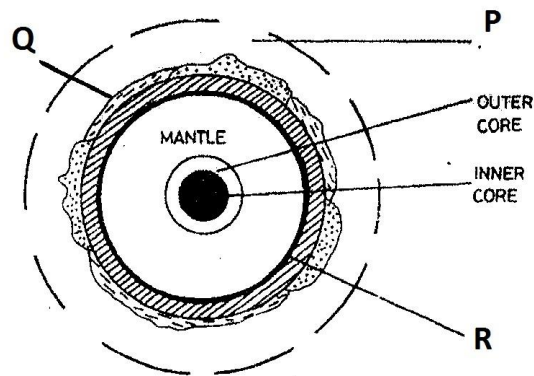
1. Write your name and index number in the spaces provided above
2. Sign and write date of examination in the space provided.
3. This paper consists of **TWO** sections A and B
4. Answer **ALL** questions in Section A. In section B answer **QUESTION 6** and any other  
**TWO.**
5. All answers **MUST** be written in the spaces provided at the end of question 10.
6. Answer all questions in English.

**For Examiners Use Only**

Section	Questions	Maximum Score	Candidates Score
A	1 – 5	25	
B	6	25	
		25	
		25	
	TOTAL SCORE	100	

### SECTION A

1. (a) What is geography (2marks) (b)  
Give **two** types of environment (2marks)
2. The diagram below represents the structure of the earth. Use it to answer the questions.



- (a) Name:  
(i) the part marked P and R (2marks) (ii)  
**three** features that makes up part marked Q (3marks)
3. (a) Differentiate between folding and faulting (2marks) (b)  
Name **three** relief features formed as a result of folding (3marks)
4. (a) Apart from physical weathering, give **two** other types of weathering (2marks)  
(b) List **four** physical weathering processes that takes place in Arid areas (4marks)
5. (a) What is drainage pattern (2marks) (b)  
Give **three** types of drainage system (3marks)

### 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 questions  
FOR MARKING SCHEME CALL SIR ABRAHAM **0729 125 181**



- (a)(i) What type of map is Kisumu East map extract? (1mark)
- (ii) Give the latitudinal and longitudinal position of the North West corner of the map (2marks)
- (iii) what is the general direction of the flow of the river Ombeyi (1marks)

(iv) Apart from rivers identify **two** any other drainage features in the area covered by the map (2marks)

(b) Give the six figure grid reference of the trigonometrical station SKP 14 in the North Eastern part of the area covered by the map (2marks)

(c) (i) Using a vertical scale of 1cm to represent 100 meters, draw a cross section from grid reference 960980 to grid reference 030980 (4marks) (ii)

On the cross-section, mark and name the following

Rivers (1mark) Dry

weather road (1mark) Steep

slope (1mark)

(iii) Calculate the vertical exaggeration (VE) of the section (2marks) (d)

(i) Citing evidence from the map, identify **two** social services offered in Kisumu municipality (4marks)

(ii) Citing evidence from the map explains **two** factors that favour the establishment of plantation in the area covered by the map (4marks)

7(a)(i) Give **two** examples of non-metallic minerals (2marks) (ii)

Describe the following characteristics of minerals

Colour (2marks)

Hardness (2marks) Lustre

(2marks)

(b) (i) Give **two** forms of metamorphism (2marks) (ii)

List **three** examples of metamorphism (3marks)

(c) (i) Describe the formation of plutonic rocks (3marks) (ii)

State **two** conditions necessary for the growth of coral polyps (2marks)

(d) You are planning to carry out a field study on study on rocks within the local environment

(i) Formulate **three** objectives of your study (3marks) (ii)

For your field study, you have prepared a work schedule. State **two** items you would include in

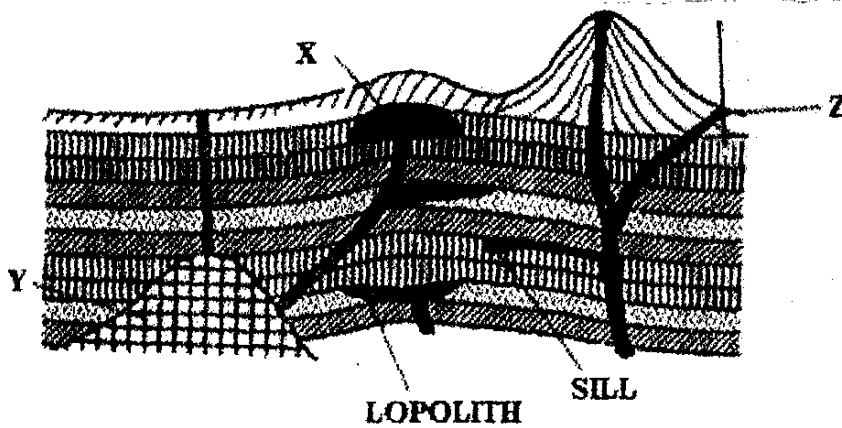
the schedule (2marks) (iii)

Give **two** methods of data collection you will use while in field (2mark

8 (a) what is lava

(2marks) (b) The

diagram below shows some intrusive volcanic features



(i) Name the features marked X, Y and Z

(3marks)

(ii) Describe how the following features are formed

Sill

(4marks)

Lopolith

(4marks)

(c) Describe the composition of composite volcano

(4marks)

(d) Explain **four** ways in which volcanic features influence human activity

(8marks)

Q9 (a) Define an ocean

(2marks) (ii) State

**three** types of seas

(3marks) (b) (i) Give **three**

characteristics of the continental shelf

(3marks) (ii) Describe the following

processes of wave erosion along the coast

Abrasion

(2marks)

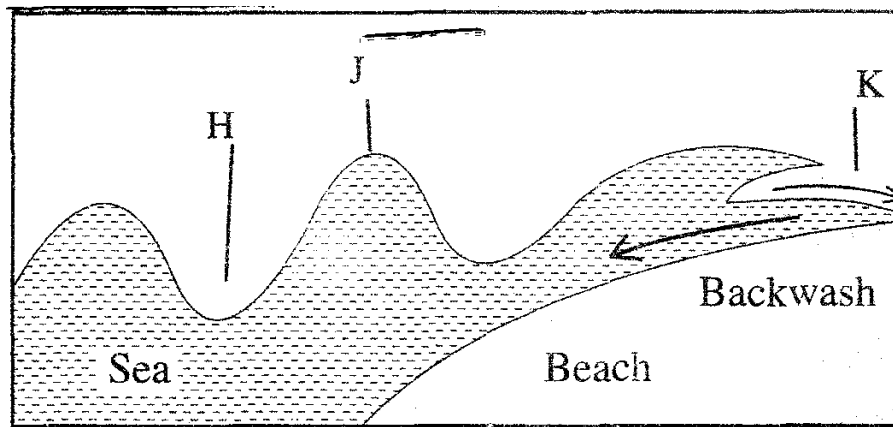
Hydraulic action

(2marks)

Solution

(2marks) (c) The

diagram below shows a breaking sea wave; use it to answer the questions below



(i) Name the features marked H, J, K

(3marks) (ii)

With the aid of well labeled diagrams describe the process through which a stack is formed (8marks) Q10

(a) what is soil

(2marks) (b) (i) List

**three** components of soil

(3marks)

(ii) Explain how the following factors influence soil formation

Parent rock

(4marks)

Topography

(4marks)

(c) Draw a well labeled diagram of mature soil profile

(4marks) (d)

Explain **four** ways in which human activities may lead to soil erosion

(8marks)

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**SERIES 5 PAPER TOP RANK KCSE MOCK 2024**

312/1  
GEOGRAPHY PAPER 1  
TIME: 2¾ HOURS  
Kenya Certificate of Secondary Education  
312/1 GEOGRAPHY

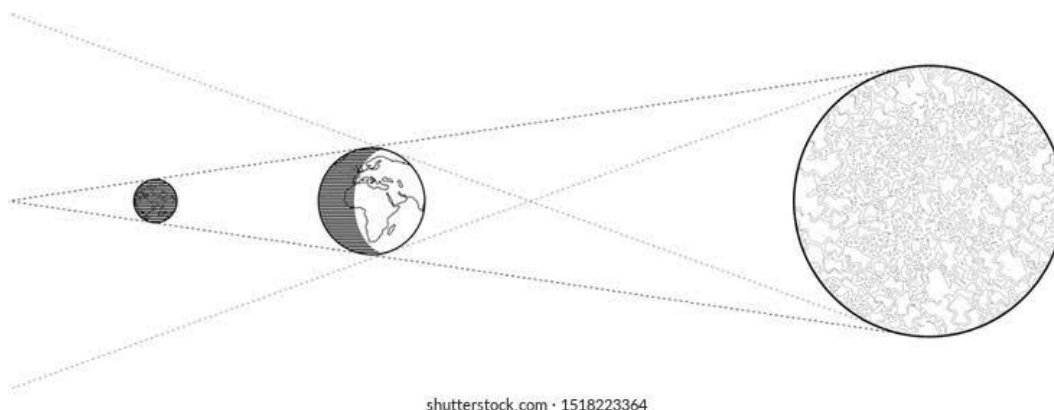
**INSTRUCTIONS TO STUDENTS**

- *This paper has **two** sections **A** and **B***
- *Answer **ALL** the questions in section **A**. In section **B** answer questions **6** and any other **TWO** questions.*

## SECTION A

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

1. (a) What is the relationship between Geography and Mathematics? (2 marks)  
(b) Identify **three** branches of Geography. (3 marks)
2. (a) Use the diagram below to answer the questions that follow:



- (i) What type of Eclipse is represented by the diagram? (1 mark)
- (ii) Explain how the eclipse above occurs. (2 marks)
- (b) What is the time at Hola on  $40^{\circ}\text{E}$  when the time at Tema on  $0^{\circ}$  longitude is 12:00 noon? (2 marks)
3. (a) Apart from Fold Mountains, name three other features resulting from folding. (3 marks)  
(b) State **two** factors that determine the folding of crustal rocks. (2 marks)
4. (a) Give **three** reasons why some Lakes of Kenya have saline water. (3 marks)  
(b) Outline **two** economic uses of lakes. (2 marks)
5. (a) What is natural vegetation? (2 marks)  
(b) State three characteristics of the Mediterranean type of vegetation. (3 marks)

## SECTION B

6. Study the map of Kisumu East 1:50,000 (Sheet 116/2) provided and answer the following questions.
- (a)
    - (i) What is the vertical interval of the map extract? (1 mark)
    - (ii) Using the marginal information, give the magnetic variation of the area when the map extracts was drawn. (1 mark)
    - (iii) Measure the length of the regional boundary from the map edge at grid square 9999 to Northing 97. Give your answer in kilometres. (2 marks)
    - (iv) What is the approximate height of the seasonal swamp in the Kano plains? (2 marks)
  - (b)
    - (i) Using a vertical scale of 1 centimetre to represent 50 metres draw a cross section from grid reference 080920 to grid reference 080980. (4 marks)

On it, mark and label the following:

    - I. Sugarcane plantation (1 mark)
    - II. Steep slope (1 mark)
    - III. All weather road bound surface C543/1. (1 mark)
    - (ii) Calculate the vertical exaggeration of the cross section. (2 marks)
  - (c) Describe the characteristics of the big profile of river Luando (6 marks)
  - (d) Citing evidence from the map, explain two factors that favour trade in the area covered by the map. (4 marks)
7. (a) (i) What is a rock? (2 marks)
- (ii) Describe the following characteristics of mineral:
    - Tenacity (2 marks)
    - Lusture (2 marks)
    - Cleavage (2 marks)
- (b)
    - (i) Name **two** examples of intrusive igneous rocks. (2 marks)
    - (ii) Describe the formation of Plutonic rocks. (4 marks)
  - (c) Explain **three** significance of rocks to the economy of Kenya. (6 marks)
  - (d) Your class is planning to carry out a fieldwork on rocks around your school.
    - (i) Outline **three** activities you would engage in before the study.



(3 marks)

(ii) State **two** challenges you are likely to face during the field study.

(2 marks)

8. (a) Outline **two** ways in which river water flows within the channel. (2 marks)

(b) (i) State three factors that influence river erosion. (3 marks)

(ii) Describe how the river erodes through the following processes;

- Hydraulic action (4 marks)

- Solution (2 marks)

(c) Using a well labeled diagram, describe how the following feature are formed:

- Interlocking spurs (4 marks)

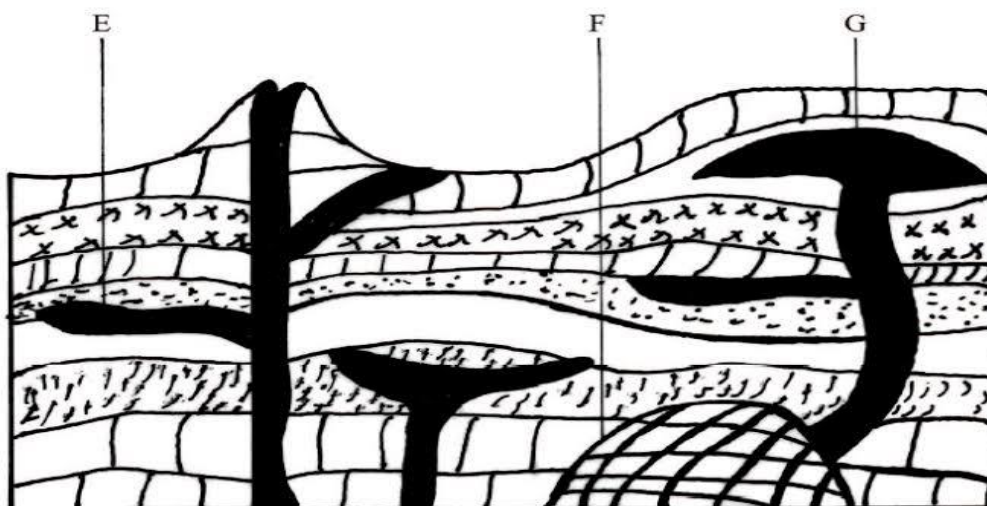
- Natural levees (4 marks)

(d) Explain three negative effects of rivers. (6 marks)

9. (a) (i) Differentiate between Vulcanicity and volcanicity. (2 marks)

(ii) Describe how lava plateau is formed. (4 marks)

(iii) The diagram below shows some intrusive features formed by vulcanicity. Use it to answer questions below.



I. Name the features marked E, F and G. (3 marks)

II. Explain how feature marked E is formed. (4 marks)

- (b) Students carried out a field study on volcanic rocks.
- (i) Give **four** reasons why it is necessary to collect rock samples during such a field study. (4 marks)
  - (ii) State **two** problems they are likely to have experienced during the field study. (2 marks)
  - (iii) Outline **two** follow-up activities. (2 marks)
- (c) (i) Give **three** causes of Earthquakes. (3 marks)
- (ii) Name **three** natural major earthquake zones of the world. (3 marks)
10. (a) (i) What is soil contenta? (2 marks)
- (ii) Give three factors that determine the colour of soil. (3 marks)
- (iii) State three ways in which mulching helps in soil conservation. (3 marks)
- (b) Explain how the following forming practices cases soil erosion.
- (i) Burning (4 marks)
  - (ii) Over cultivation (4 marks)
  - (iii) Give two economic uses of soil. (2 marks)
- (c) You are supposed to carry out a field study of an eroded area:
- (i) State three methods you would use to control soil erosion. (3 marks)
  - (ii) What would be disadvantages of using secondary methods of collecting data in this kind of study? (2 marks)
  - (iii) Identify the methods you would use to record the observations. (2 marks)

NAME.....ADM.....

SCHOOL.....INDEX.....

DATE.....SIGN.....TARGET.....

**SERIES 6 PAPER TOP RANK KCSE MOCK 2024**

**Kenya Certificate of Secondary Education**

**312/1 GEOGRAPHY Paper 1**

**TIME: 2 HOURS 45 MINUTES**

**INSTRUCTIONS TO CANDIDATES**

- This paper has **two** sections: **A** and **B**
- Answer **ALL** the questions in **section A**.
- In section **B**, answer **questions 6** and any other **TWO** questions.
- All the answers must be written on the foolscaps provided/attached after page 4.
- Candidates must answer the questions **in English**.

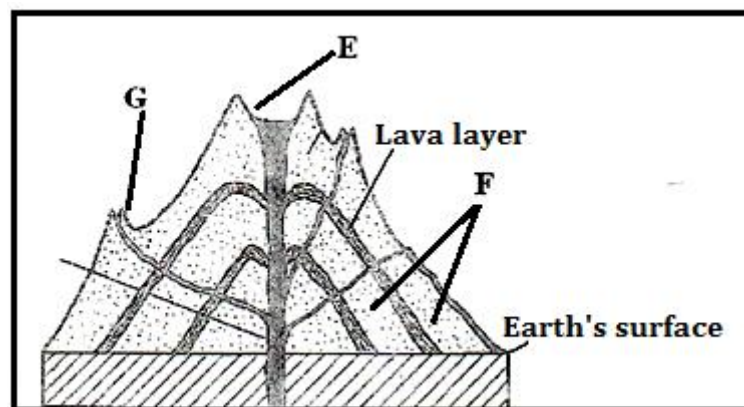
**FOR EXAMINER'S USE ONLY**

Section	Questions	Maximum Score	Candidate's Score
<b>A</b>	<b>1 - 5</b>	<b>25</b>	
<b>B</b>	<b>6</b>	<b>25</b>	
		<b>25</b>	
		<b>25</b>	
<b>Total Score</b>			

***This paper consists of 4 printed pages. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions/pages are missing.***

**SECTION A**

1. (a) Apart from the Sun and the planets, give **two** other heavenly bodies found in the solar system. (2 marks)
- (b) State **three** characteristics of the earth's crust. (3 marks)
2. (a) Define the term weather. (2 marks)
- (b) List **two** types of rainfall common in Kenya. (2 marks)
3. (a) Name **two** parts of Africa that experience equatorial climate. (2 marks)
- (b) List **three** major climatic regions of Kenya. (3 marks)
4. (a) Give **two** categories of lakes formed due to earth movements. (2 marks)
- (b) State **three** conditions necessary for the formation of ox-bow lakes. (3 marks)
5. The diagram below shows an extrusive volcanic feature.



- (a) Identify the parts marked E, F and G. (3 marks)
- (b) Outline **three** ways in which a caldera may be formed. (3 marks)

## SECTION B

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

6. Study the map of Kisumu East (1:50,000 sheet 116/2) provided and use it to answer the following questions.
  - (a) (i) What is the four figure grid reference of the point where road B 2/1 reaches along the western margin of the map extract? (2 marks)
  - (ii) Measure the length of Kisumu Municipality boundary. Give your answer in kilometres. (2 marks)
  - (b) Describe the drainage of the area covered by the map. (5 marks)
  - (c) Citing evidence from the map, give **three** social services offered at Kisumu Town. (6 marks)
  - (d) (i) Using a vertical scale of 1cm to represent 100m, draw an accurate cross section along easting 05 from northing 99 to northing 92. (4 marks)

(ii) On the cross section, mark and name:

- A steep slope
- A boundary
- Road C 543/1
- A railway line.

(4 marks)

(iii) Calculate the vertical exaggeration of the cross section.

(2 marks)

7. (a) (i) Define the term folding.

(2 marks)

(b) (i) Name **five** types of folds.

(5 marks)

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

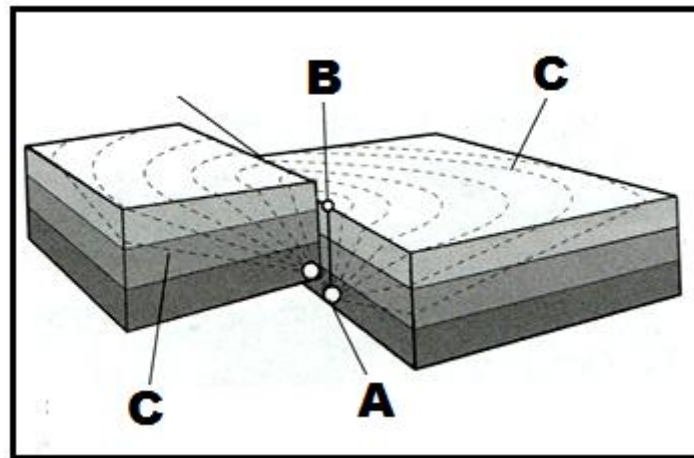
(10 marks)

(c) Explain **four** economic importance Fold Mountains to people. (8 marks)

8. (a) (i) Define the term earthquake.

(2 marks)

(ii) The diagram below shows the occurrence of an earthquake. Name the parts marked A, B, and C. (3 marks)



(b) (i) Apart from the movement of tectonic plates, outline **four** other natural causes of earthquakes. (4 marks)

(ii) Explain **two** ways in which movement of tectonic plates causes earthquakes. (4 marks)

(c) State **three** differences between the intensity and magnitude of an earthquake. (6 marks)

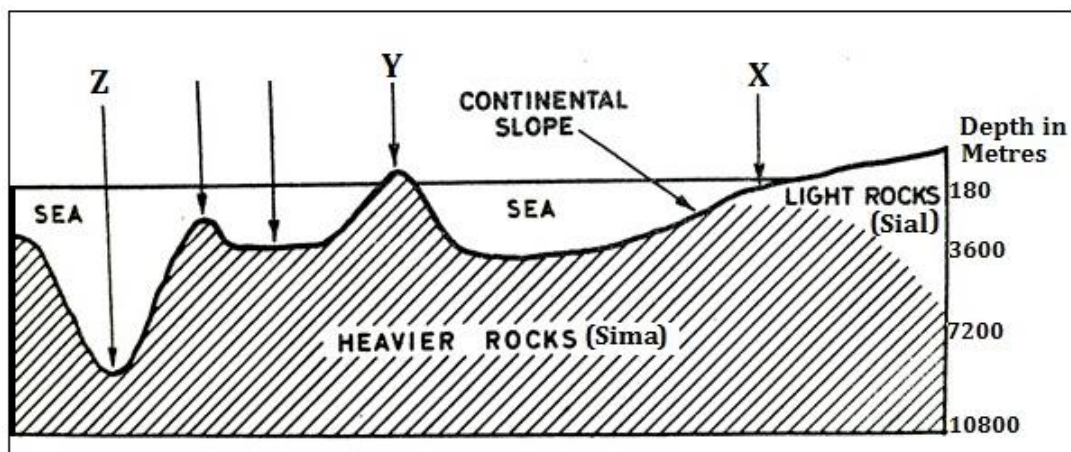
(d) Explain **three** effects of earthquakes in built up areas. (6 marks)

9. (a) (i) What is a river?

(2 marks)

- (ii) List **three** types of river erosion. (3 marks)
- (b) Explain **four** ways through which a gorge may be formed. (8 marks)
- (c) Explain the following drainage systems.
  - (i) Accordant drainage. (2 marks)
  - (iii) Back tilted drainage. (2 marks)
- (d) Suppose you were to carry out a field study along the lower course of a major river.
  - (i) State **five** reasons why it is important to conduct a pre-visit to the area of study. (5 marks)
  - (ii) State **three** follow-up activities that you would do after the study. (3 marks)

10. The diagram below shows some features that form ocean topography.



- (a) (i) Identify the features marked X, Y and Z. (3 marks)
- (ii) State **three** sources of salt in ocean water. (3 marks)
- (b) Explain how the following factors influence the rate of wave erosion:
  - (i) Gradient of the coast. (2 marks)
  - (ii) Nature of coastal rocks. (2 marks)
  - (iii) Size of waves. (2 marks)
- (c) Describe how a cave is formed at the coast. (5 marks)
- (d) Explain **four** economic importance of coastal features. (8 marks)

NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

**SERIES 7 PAPER TOP RANK KCSE MOCK 2024**

312/1

**GEOGRAPHY PAPER 1**

**TIME: 2 HOURS 45 MINUTES.**

**Kenya Certificate of Secondary Education.**

312/1

**Paper 1**

**GEOGRAPHY**

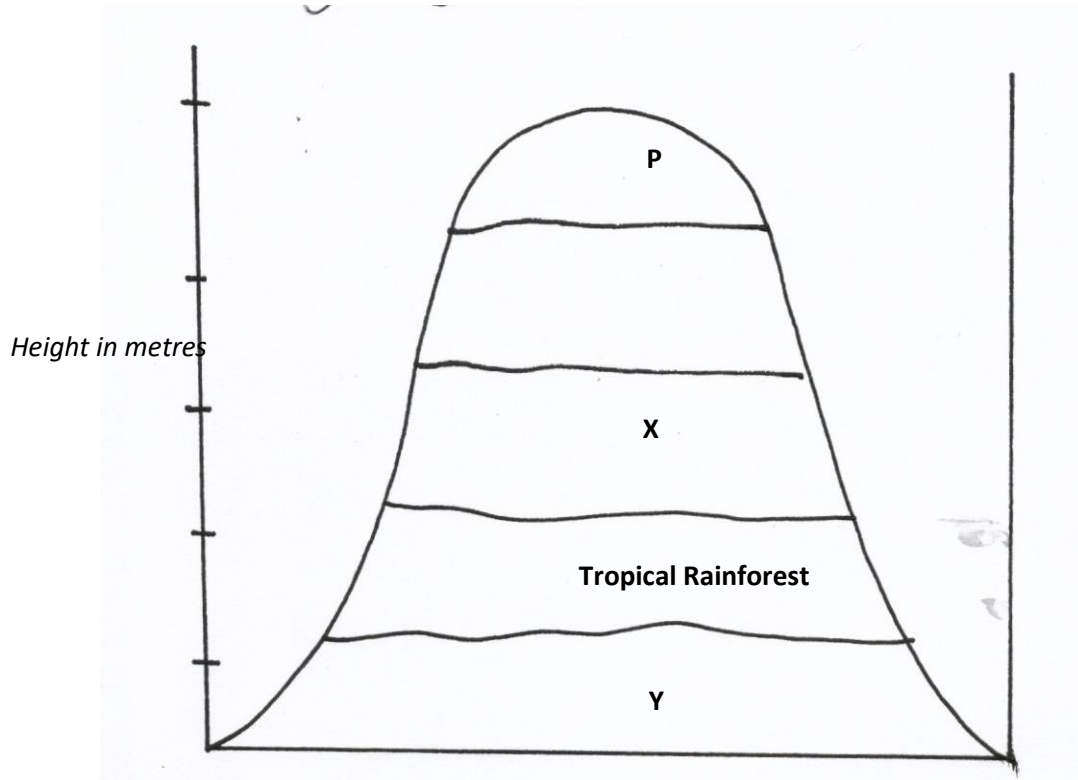
**INSTRUCTION TO STUDENTS.**

- a. Write your name and admission number in the spaces provided.*
- b. Sign and write the date of the examination in the spaces provided above.*
- c. This paper has **two** sections A and B.*
- d. Answer **ALL** the questions in section A.*
- e. Answer question 6 and any other **TWO** questions from section B. .*
- f. Answers must be written in the spaces provided at the end of question 10.*
- g. This paper consists of 16 printed pages.*
- h. Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
- i. Candidates should answer the questions in English.*

**SECTION A: 25 MARKS**

*Answer **ALL** questions in this section.*

1. (a) What is physical Geography? (2marks)
- (b) Give **three** divisions of physical Geography. (2marks)
2. State **four** effects of rotation of the earth (4marks)
3. The diagram below represents zones of natural vegetation on a mountain. Use it to answer questions that follow



- a) Identify the vegetation zones marked **X** and **Y**. (2marks)
- b) State **four** characteristics of tropical rainforest vegetation. (4marks)
4. (a) Identify **two** erosional processes in a desert landscape. (2marks)
- (b) Describe deflation as wind erosional process (3marks)
5. (a) Define a lake (2marks)
- (b) Give **three** reasons why some rift valley lakes are fresh water. (3marks)

### **SECTION B**

Answer question **6** and any other **two** question in 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)

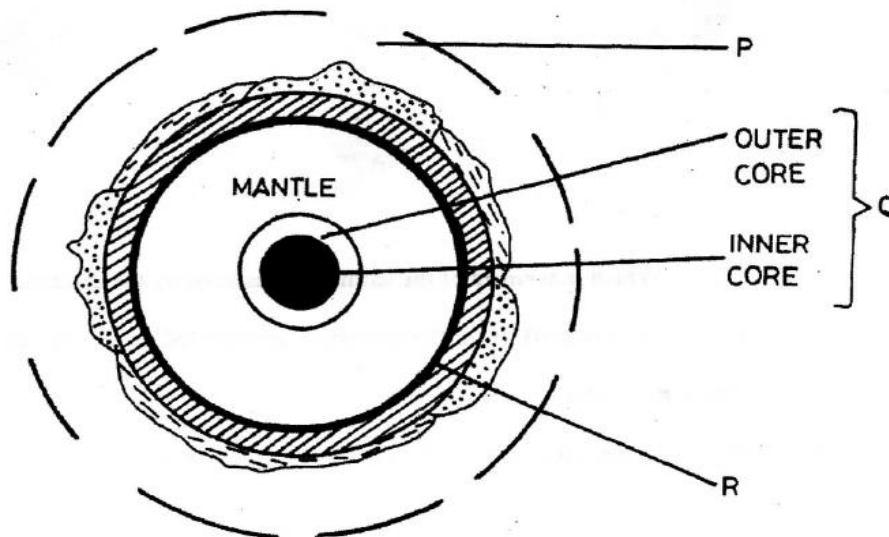
On the rectangle, mark and name the following. (4marks)

- 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).The diagram below shows the structure of the earth. Use it to answer the question that follows.



- i. Name the parts marked : (2marks)
    - P
    - Q
  - ii. Describe the composition of the crust (5marks)
- (b). i. Define the term solar system. (2marks)
- ii. Using a well labelled diagram describe the occurrence of the solar eclipse. (5marks)
- (c). i. What is climate change? (2marks)
- ii. State four human activities which contribute to greenhouse effect. (4marks)
- iii. Mention effects of global warming on human activities. (5marks)

- 8.(a) (i) What are earth movements? (2marks)
- (ii) State **three** causes of earth movements? (3marks)
- (b) Describe how a recumbent fold is formed. (4marks)
- (c) (i) Apart from a recumbent fold, name **two** other types of folds. (2marks)
- (ii) Name four features resulting from folding apart from fold mountains. (4marks)

- (iii). Name two examples of fold mountains in Africa. (2mks)
- (d) Explain **four** significance of folding to human activities. (8marks)
9. (a). i. Define the term hydrological cycle. (2marks)
- ii. Give three processes of hydrological cycle. (3marks)
- (b). i. State three factors that influence river erosion. (3marks)
- ii. Describe the following river erosion processes.
- Abrasion (3marks)
  - Solution. (3marks)
- (c). i. Apart from arcuate delta, name two other types of coastal delta. (2marks)
- ii. Explain three conditions necessary for delta formation. (6marks)
- (d). State three factors which influence the formation of river drainage patterns.(3marks)
10. .) a.) Give two places in East Africa that are permanently covered by ice (2marks)
- b.) i.) Identify three ways in which glaciers move (3marks)
- ii.) Explain factors that influence the movement of ice. (4marks)
- c.) i.) Describe how the hanging valleys are formed (6marks)
- ii.) State three significance of lowland glacial features to human activities (3marks)
- d) Your class plans to carry out a field study on glaciation on the slopes of Mt. Kenya.
- i.) What preparations will you make before the actual study (4 marks)
- ii.) Identify three methods that you will use to collect data during your study (3 marks)

NAME.....ADM.....

SCHOOL.....INDEX.....

DATE.....SIGN.....TARGET.....

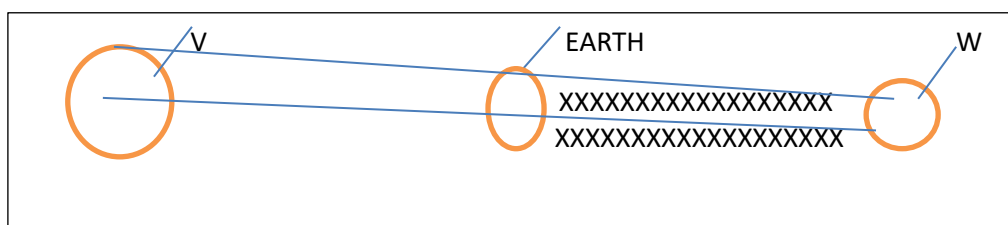
**SERIES 8 PAPER TOP RANK KCSE MOCK 2024**

**GEOGRAPHY PAPER 1 312/1**

**SECTION A**

**ANSWER ALL THE QUESTIONS IN THIS SECTION**

1. a) What is the relationship between Geography and Mathematics. (2mks)  
b) State four reasons why it is important to study Geography. (4mks)
2. a) The diagram below shows an eclipse. Name the features marked V and W. (2mks)



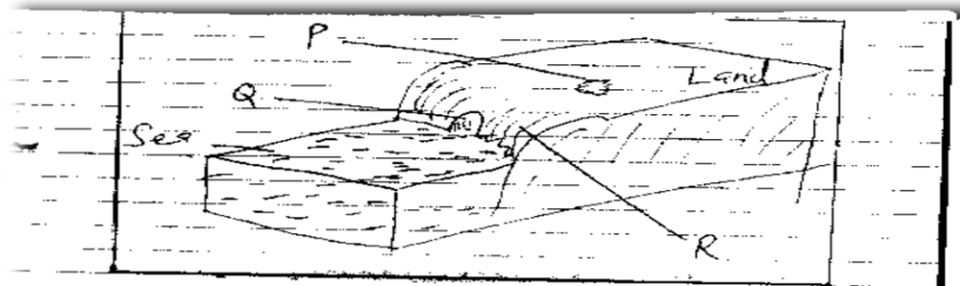
- b) State four proofs that the shape of the earth is spherical. (4mks)
3. a) Name two forms of precipitation that commonly occur on Kenya highlands. (2mks)  
b) What is a Stevenson screen? (2mks)
4. a) Give four proofs that support the theory of continental drift. (4mks)
5. a) State the two causes of vertical movement of the ocean water. (2mks)  
b) List three types of ocean tides (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. (2mks)  
ii) Convert the scale of map into a statement scale. (2mks)  
iii) What is the height of the Nyeri Hill forest? (2mks)
  - b) i) Give the six figure grid reference of the ARK lodge. (2mks)  
ii) What is the distance in kilometres of the Naivasha road (E579) from the junction at GR 5847 to the western edge of the map. (2mks)

- c) Reduce by two, the area enclosed by Eastings 60 to 70 and Northings 50 to 60 (2mks)
- i) On the square, mark and name the following features
- Aberdare national park (1mk)
  - Nyeri Hill forest (1mk)
  - River Chanya (1mk)
  - Municipality or township boundary (1mk)
  - Kamwenja coffee factory (1mk)
- ii) Find the new scale for the reduced area (2mks)
- d) Citing evidence, identify three social services carried out in Nyeri Municipality (6mks)
7. a) i) What is a mineral? (2mks)
- ii) Describe the following characteristics of minerals.
- a) Lustre (2mks)
- b) Colour (2mks)
- c) Density (2mks)
- b) i) Name two examples of extrusive igneous rocks. (2mks)
- ii) Describe three ways in which sedimentary rocks are formed. (6mks)
- c) Explain the significance of rocks to the economy of Kenya under the following:
- i) Tourism (2mks)
- ii) Energy (2mks)
- iii) Water (2mks)
- d) For each of the following sedimentary rocks, name the resultant rock that forms after metamorphism. (3mks)
- i) Sandstone-
- ii) Limestone
- iii) Clay
8. a) i) Apart from Inter Tropical Convergence Zone (ITCZ), list four physical factors that influence climate. (4mks)
- ii) Give four characteristics of the Inter-Tropical Convergence Zone (ITCZ) (4mks)
- b) i) Name the three equatorial climatic regions of Kenya. (3mks)
- ii) Describe the characteristics of Tundra climate. (6mks)
- c) Explain four human causes of desertification. (8mks)
9. a) The diagram below represents some coastal features.
- i) Name the features marked P, Q and R (3mks)



P-

Q-

R-

ii) State three conditions necessary for the formation of a beach. (3mks)

b) i) Apart from Bird's foot delta, name two other types of coastal deltas. (2mks)

ii) Draw a diagram to show a Bird's foot delta. (3mks)

iii) Describe how a Bird's foot delta is formed. (4mks)

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

ii) Explain four factors that influence the development of coasts (8mks)

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

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

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

b) Describe how an Arete is formed. (4mks)

c) i) Name three types of Moraine. (3mks)

ii) Explain four positive effects of glaciations in lowland areas. (8mks)

NAME.....ADM.....

SCHOOL.....INDEX.....

DATE.....SIGN.....TARGET.....

**SERIES 9 PAPER TOP RANK KCSE MOCK 2024**

**Kenya Certificate of Secondary Education**

**312/1**

**Paper 1 Geography**

**Time - 2  $\frac{3}{4}$  hours**

**Instructions to students**

1. Write your name, admission number and class in the spaces provided above.
2. This paper consists of two section **A** and **B**
3. Answer all the questions in section **A**
4. Answer **question 6** and any other two questions from section **B**
5. All you answer **must** be written in the spaces provided in this question paper.
6. Candidates should answer the questions in English.

**For Examiner's use only.**

Section	Question	Maximum's Score	Candidate's Score
<b>A</b>	<b>1-5</b>	<b>25</b>	
<b>B</b>	<b>6</b>	<b>25</b>	
	<b>7</b>	<b>25</b>	
	<b>9</b>	<b>25</b>	
	<b>10</b>	<b>25</b>	
<b>Total</b>		<b>100</b>	

## **SECTION A**

1.     a).     What is wildlife? 2marks  
       b).     Name three game sanctuaries in Kenya 3marks
  
2.     a) Draw a well labelled diagram showing the three functional zones of an ideal urban centre .  
(2marks)  
       b)     State three factors leading to the emergence of slums in urban areas (3marks)
  
3.     a)     Give two reasons how the following factors influenced the development of iron and steel industry  

- Availability of water. (2marks)
  - Historical reasons (2marks)
  
4.     a).     Distinguish under-population from overpopulation. (2marks)  
       b)     Below is a table showing the intercensal births and deaths in Kenya (millions)

	<b>2013</b>	<b>2014</b>	<b>2015</b>
Number of Births	34.9	32.3	31.8
Number of Deaths	8.3	7.0	5.8
<b>Total Population</b>	<b>44.8</b>	<b>46.0</b>	<b>47.2</b>

Source: Hypothetical

- i.     Calculate the crude birth rate of 2013 (2 marks)
  - ii.    Calculate the death rate of 2015 (2 marks)
  - iii.   The numerical population increase in Kenya between 2013 and 2015 (2marks)
- 
5.     a).     What is land reclamation? (1 mark)



- b) State two factors that determine the amount of water to be supplied to agricultural land

(2 marks)

### SECTION B

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

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

- (a) (i) What is the title of the map extract? (1 mark)

- (ii) Give the name of the map extract bordering Karatina to the east (1 mark)

- (b) (i) Name two human features in grid square 0346. (2 marks)

- (ii) What is the bearing of the Air photo principal point in grid square 9452 (13A/13) from the trigonometric station in grid square 9552 (121T7) (2 marks)

- (c) Calculate the area of the natural forest in Kirinyaga District (2 marks)

- (d) (i) Using a scale of 1cm to represent 20 meters, draw an accurate cross section from grid square 850570 to grid square 910570. (3 marks)

- (ii) On the cross section mark and name;  
- Forest (1 mark)

- River (1 mark)

- (iv) Determine indivisibility between the two end points (1 mark)

- (e) Describe the drainage of the area in the map extract (5 marks)

- (f) Students of a school at Ragati went for a field study in Karatina Township.

- (i) Name two types of settlement patterns they may have identified in the town. (2 marks)

- (ii) State four solutions to problems they may have encountered during the field study. (4 marks)

7. (a) What is a rock? (2marks)

- (b) (i) Classify rocks according to their mode of formation. (3marks)

- (ii) Identify **two** classes of rocks mentioned in (i) above that are

- formed from the already existing rocks. (2marks)
- (iii) List **two** characteristics of rocks. (2marks)
- (c) (i) List **two** main types of rocks dominant in Kenya. (2marks)
- (ii) Explain the importance of studying rocks. (6marks)
- (d) Explain **four** benefits of rocks to the economy of a country. (8marks)
8. (a) (i) What is mass movement? (2marks)
- (ii) List the **two** broad categories of mass wasting. (2marks)
- (b) (i) What is soil creep? (2marks)
- (ii) Describe the factors that cause soil creep. (5marks)
- (c) Differentiate between soils creeps and rock slide. (6marks)
- (d) Explain the negative effects of mass wasting on physical and human environment. (8marks)
9. (a) Differentiate between a ocean and a sea. (2marks)
- (b) (i) Identify the **main** cause of water movement in the ocean. (2marks)
- (ii) Identify the **two** main water movements in the oceans. (2marks)
- (c) List **three** processes through which erosion occurs along the Coasts. (3marks)
- (d) Using a well labeled diagram describe the formation of a spit. (5marks)
- (e) Describe the **three** types of coasts. (6marks)
- (f) Explain how oceans currents influence the climate of the surroundings. (5marks)
10. (a) Describe how a river erodes its channels by the following process.
- (i) Hydraulic action (2marks)
- (ii) Abrasion (2marks)
- (b) (i) Explain **three** factors that lead to rejuvenation of a river (6marks)
- (ii) Describe the process of a river capture. (6marks)
- (c) Some students carried out a field study on the feature found along a river.
- (i) List **three** features formed as a result of river erosion. (3marks)
- (ii) State **three** methods that students may have used to record their data (2marks)
- (iii) Explain **two** ways in which features resulting from river deposition are of significance to human activities. (4marks)

**THIS IS THE LAST PRINTED PAGE**

NAME.....ADM.....  
SCHOOL.....INDEX.....  
DATE.....SIGN.....TARGET.....

**SERIES 10 PAPER TOP RANK KCSE MOCK 2024**

**Kenya Certificate of Secondary Education**

**312/1**

**Paper 1 Geography**

**Time - 2  $\frac{3}{4}$  hours**

**Instructions to students**

Write your name, index number and other required details in the spaces provided.

1. Sign and write the date of the examination in the spaces provided.
2. This paper consists of two sections A and B.
3. Answer all questions in section A.
4. Answer questions 6 and any other two questions in section B.
5. Answers must be written on the foolscaps provided

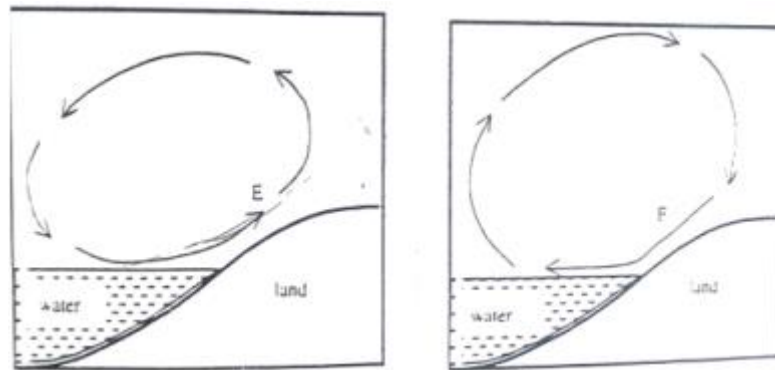
**FOR EXAMINER'S USE ONLY.**

Section	Questions	Maximum score	Candidate's score
A	1-5	25	
B	6	25	
	25		
	25		
TOTAL SCORE	100		

**SECTION A**

**Answer all questions in this section**

1. The diagram below represent the flow of air currents. Use it to answer question a and b.



- a) Name the air current marked F.  
(1mk)
- b) Describe how the air current marked E occurs.  
(4mks)
2. a) What is Relative Humidity?  
(2mks)
- b) The table below shows temperature readings of Dry bulb thermometer and wet bulb thermometer in three weather stations.

STATION	DRY BULB THERMOMETER	WET BULB THERMOMETER
J	30°C	28°C
K	30°C	5°C
L	30°C	30°C

Give the state of relative humidity in station J, K and L. (3mks)

3. a) Differentiate between a magnitude of an earthquake and intensity of an earthquake. (2mks)
- b) Describe how a dyke is formed. (3mks)
4. a) Name **two** types of ice masses found on mountains in East Africa. (2mks)
- b) State **three** distinctive characteristics of a pyramid peak. (3mks)
5. a) Name **two** ocean currents along the Western Coast of Africa. (2mks)
- b) State **three** causes of ocean currents. (3mks)

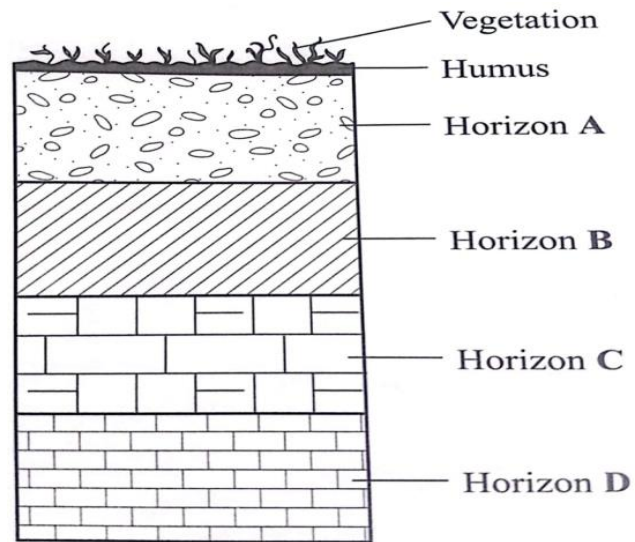
## **SECTION B**

**Answer question 6 and any other two questions.**

6. Study the map of Kisumu East 1:50,000 (sheet 116/2) provided and answer the following questions.
- a) i) What type of map is Kisumu East Sheet? (1mk)  
ii) Give the vertical interval of the map. (1mk)  
iii) State the latitudinal and longitudinal position of North West corner of the map. (2mks)
  - b) i) What is the bearing of the trigonometrical station at Grid reference 081980 from rock outcrop at grid reference 071992? (2mks)  
ii) Measure the length of all weather road bound surface B2/1 from the junction at Grid reference 974911 to the edge of the map grid reference 947967. Give your answer in kilometres. (2mks)
  - c) i) Draw a cross section between Grid Reference 070940 and 070980. Use a vertical scale 1cm to represent 100 metres. (4mks)  
ii) On the cross section, mark and name:-
    - All weather road bound surface. (1mk)
    - River (1mk)
- iii) Calculate the vertical exaggeration (VE) of the cross section. (2mks)
- d) Describe the relief of the area covered by the map. (5mks)
  - e) Citing evidence from the map, give two social services offered in Kisumu Town. (4mks)
7. a) Describe the following characteristics of minerals.
- i) Lustre (2mks)
  - ii) Density (2mks)
  - iii) Cleavage (2mks)
- b) Giving an example for each, describe the three types of mechanically formed sedimentary rocks. (9mks)
- c) You are required to carry out a field study on the types of rocks within the vicinity of your school.
- i) State four reasons why you would conduct a reconnaissance (4mks)
  - ii) State how you would use the following items during the field study.
    - Geological hammer (2mks)
    - Magnifying lens (2mks)
    - Geological map (2mks)

8. a) Give **two** types of Earth Movement within the earth's crust. (2mks)
- b) i) Describe the origin of continents according to the theory of Continental Drift. (6mks)
- ii) Explain the following evidence which support the theory of Continental Drift.
- Paleontological evidence. (2mks)
  - Paleoclimatic evidence. (2mks)
  - Sea floor spreading. (2mks)
- c) i) Name **one** fold mountains in:-
- North America (1mk)
  - Asia (1mk)
  - Africa (1mk)
- ii) With the aid of well labeled diagrams, describe how Fold Mountains are formed. (8mks)
9. a) i) What is a river Divide. (2mks)
- ii) Describe the three types of River Erosion. (9mks)
- b) Explain the following drainage patterns and systems.
- i) Dendritic. (2mks)
- ii) Superimposed. (4mks)
- c) Explain four ways in which Rivers Negatively affect human environment. (8mks)
- 10.a) i) What is soil texture. (2mks)
- ii) Give **two** types of soil according to texture. (2mks)
- b) Explain how the following factors influence the formation of soil.
- i) Parent Rock (4mks)
- ii) Living organisms. (4mks)

- c) The diagram below represents a well-developed soil profile. Use it to answer question C.



- i) Name three layers of Horizon A (3mks)
- ii) Describe the characteristics of Horizon B. (3mks)
- d) i) State three economic benefits of soil. (3mks)
- ii) Describe the following types of soil erosion.
- Sheet erosion. (2mks)
  - Gully erosion. (2mks)

## **WE HAVE ALSO THE FOLLOWING**

### **1. MATHEMATICS**

- FORM 1 - FORM 4 TOPICAL QUESTIONS AND ANSWERS
- FORM 1 – FORM 4 OPENER,MID-TERM AND ENDTERM EXAMS
- TOP RANK PREDICTION MOCK SERIES EVERY YEAR
- FORM 1- FORM 4 NOTES
- SCHEMES OF WORK EVERY YEAR

### **2. ENGLISH**

- FORM 1 - FORM 4 TOPICAL QUESTIONS AND ANSWERS
- FORM 1 – FORM 4 OPENER, MID-TERM AND ENDTERM EXAMS
- TOP RANK PREDICTION MOCK SERIES EVERY YEAR
- FORM 1- FORM 4 NOTES
- SCHEMES OF WORK EVERY YEAR
- POETRY QUESTIONS AND ANSWERS
- POETRY NOTES
- PARLIAMENT OF OWIS,ARTIST OF THE FLOATING WORLD ,THE SAMARITAN, SILENT SONGS,FATHERS OF NATIONS (EXERPT QUESTIONS, GUIDES, ESSAYS AND MARKING SCHEMES, VIDEOS AVAILABLE).

### **3. KISWAHILI**

- FORM 1 - FORM 4 TOPICAL QUESTIONS AND ANSWERS
- FORM 1 – FORM 4 OPENER, MID-TERM AND ENDTERM EXAMS
- TOP RANK PREDICTION MOCK SERIES EVERY YEAR
- FORM 1- FORM 4 NOTES
- SCHEMES OF WORK EVERY YEAR
- USHAIRI QUESTIONS AND ANSWERS
- USHAIRI NOTES
- ALL SETBOOK QUESTIONS, VIDEOS,GUIDES AND ANSWER AVAILABLE

### **4. BIO,CHEM,PHY,AGRIC,BST,COMP,HMSC,GEO,HIST,CRE**

#### **WE HAVE THE FOLLOWING FOR THE ABOVE 10 SUBJECTS**

- FORM 1 - FORM 4 TOPICAL QUESTIONS AND ANSWERS
- FORM 1 – FORM 4 OPENER,MID-TERM AND ENDTERM EXAMS
- TOP RANK PREDICTION MOCK SERIES EVERY YEAR
- FORM 1- FORM 4 NOTES
- SCHEMES OF WORK EVERY YEAR
- **WE HAVE** : TOP SCHOOLS PRE-MOCKS,MOCKS,PREDICTIONS,POST MOCKS,TERMLY EXAMS,AND ALL OTHER LEVELS EXAMS INCLUDING CBC

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