## GOLDLITE ONLINE SUPPLIES KCSE NATIONAL SCHOOLS TRIALS AND JOINT SERIES 2025

## **GEOGRAPHY PAPER 1**

**KABARAK HIGH ALLIANCE BOYS** ALLIANCE GIRLS **ASUMBI GIRLS KISII SCHOOL KENYA HIGH** MANGU SCHOOL MARANDA SCHOOL **MASENO SCHOOL MERU SCHOOL MOKASA JOINT 1 STAREHE GIRLS STAREHE BOYS** LENANA SCHOOL **MOI GIRLS ELDORET** NAIROBI SCHOOL FRIENDS SCHOOL KAMUSINGA

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# **KNEC COMPLIANT**

#### Kenya Certificate of Secondary Education

## **KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025**

## MOI KABARAK HIGH SCHOOL TRIAL 1

#### **INSTRUCTIONS TO CANDIDATES.**

- (a) Write your name, class and admission number in the spaces provided above.
- (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 sections **A**.
- (e) Answer question 6 and any other two questions from Section B.
- (f) All answers must be written in the answer booklet provided.
- (g) This paper consists of 4 printed pages.

#### For Examiner's Use Only

Section	Questions	Maximum	Candidate's
		Score	Score
А	1 – 5	25	
	6	25	
В		25	
		25	
		Total Score	

#### **SECTION A**

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

1. (a) State three effects of the rotation of the earth on its axis.(3 marks)(b) Give two proofs that the earth is spherical.(2 marks)2. (a) State three factors that influence how the wind blow.(3 marks)(b) Identify two types of local winds.(2 marks)3.(a) Define the term folding.(2 marks)(b) Name three fold mountains formed during the hercynian orogeny.(3 marks)

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



(b) State two differences between the intensity and magnitude of an earthquake.(2 marks)5. (a) State three characteristics of Savannah vegetation.(3 marks)

(b) Give **two** uses of Savannah vegetation to man.

#### **SECTION B**

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

6. Study the map of TAMBACH 1:50,000 (sheet 90/3) provided to answer the following questions.

(a)	(i) Identify two relief features found in the area covered by the map.	(2 marks)
	(ii) Give the latitudinal extent of the area covered by the map.	(2 marks)
	(iii) Give the six figure grid reference of the cattle dip at Singore (to the north western sic	le of the
	area covered by the map).	(2 marks)
(b)	(i) Calculate the approximate area of Kaptagat forest.	(2 marks)
	(ii) Measure the distance of road C51 from the junction at the mining camp to Kabarnet.	Give your
	answer in kilometres.	(2 marks)
	(iii) Calculate the bearing air photo principal point 039 (at grid reference 9478), from the	e photo
	principal point 038 (at grid reference 9481).	(2 marks)
(c)	Describe the characteristics of the long profile of R. Kerio.	(5 marks)
(d)	Citing evidence from the map, state four social functions of Tambach.	(8 marks)

(2 marks)

7.	(a)	Give <b>three</b> ways in which rocks are classified.	(3 marks)
	(b)	Describe how the following rocks are formed.	
		(i) Igneous rocks.	(6 marks)
		(ii) Chemically formed sedimentary rocks.	(6 marks)
	(c)	Explain <b>two</b> reasons why sedimentary rocks are widespread at the coast	t of Kenya. (4 marks)
<b>8.</b> (a)	(d) ) (i) Ident	Explain <b>three</b> economic importance of sedimentary rocks to Kenya. tify <b>three</b> processes through which waves erode the coastline.	(6 marks) (3 marks)
(ii	i) Apart f	rom blowholes, list <b>three</b> features that are produced by wave erosion along the	e coast. (3 marks)
(ł	o) With a	id of well-labelled diagrams, describe how a blowhole is formed.	(8 marks)
(0	c) Describ	be how a spit is formed.	(4 marks)
(0	l) Bidii B	oys students conducted a field study on coastal features along the Kenyan coa	st.
	(i) Lis	st <b>three</b> features of coastal emergence they are likely to have studied.	(3 marks)
	(ii) Sta	ate four ways in which features resulting from coastal emergence are of signif	ïcance to Kenya.
			(4 marks)
<b>9.</b> (a	a) (i)Nam	e three types of hot desert landscape.	(3 marks)
	(ii) Sta	te two reasons why wind erosion is very effective in hot deserts.	(2 marks)
(b) (i	i) Apart f	rom Yardangs name three features that results from wind action in deserts.	(3 marks)
i	i) Using	well labelled diagrams, describe how Yardangs are formed.	(7 marks)
i c) H	i) Using Explain h	well labelled diagrams, describe how Yardangs are formed. ow the following processes of wind erosion occur in the desert areas.	(7 marks)
i c) H i	i) Using Explain h i) Saltati	well labelled diagrams, describe how Yardangs are formed. ow the following processes of wind erosion occur in the desert areas.	(7 marks) (2 marks)
i c) H i	i) Using Explain h i) Saltati ii) Surfac	well labelled diagrams, describe how Yardangs are formed. ow the following processes of wind erosion occur in the desert areas. on. ee creep.	(7 marks) (2 marks) (2 marks)
i c) H i i d	i) Using Explain h i) Saltati ii) Surfac l) You ii	well labelled diagrams, describe how Yardangs are formed. ow the following processes of wind erosion occur in the desert areas. on. ee creep. ntend to carry out a field study in an arid area near your school.	(7 marks) (2 marks) (2 marks)
i c) H i c	i) Using Explain h i) Saltati ii) Surfac l) You ii i)	<ul> <li>well labelled diagrams, describe how Yardangs are formed.</li> <li>ow the following processes of wind erosion occur in the desert areas.</li> <li>ion.</li> <li>be creep.</li> <li>intend to carry out a field study in an arid area near your school.</li> <li>State two reasons for carrying out a pre-visit. (2 marks)</li> </ul>	(7 marks) (2 marks) (2 marks)
i c) F i c	i) Using Explain h i) Saltati ii) Surfac l) You in i) ii)	<ul> <li>well labelled diagrams, describe how Yardangs are formed.</li> <li>ow the following processes of wind erosion occur in the desert areas.</li> <li>don.</li> <li>be creep.</li> <li>an tend to carry out a field study in an arid area near your school.</li> <li>State two reasons for carrying out a pre-visit. (2 marks)</li> <li>State four positive effects of desert features to man that you are likely to ider</li> </ul>	(7 marks) (2 marks) (2 marks) ntify. (4 marks)
i c) H i d 10. (	i) Using Explain h i) Saltati ii) Surfac i) You in i) ii) ii)	<ul> <li>well labelled diagrams, describe how Yardangs are formed.</li> <li>ow the following processes of wind erosion occur in the desert areas.</li> <li>ion.</li> <li>ce creep.</li> <li>ntend to carry out a field study in an arid area near your school.</li> <li>State two reasons for carrying out a pre-visit. (2 marks)</li> <li>State four positive effects of desert features to man that you are likely to ider</li> <li>our factors that determine the amount of surface run-off.</li> </ul>	(7 marks) (2 marks) (2 marks) ntify. (4 marks) (4 marks)
i c) H i d 10. (	<ul> <li>i) Using</li> <li>Explain here</li> <li>i) Saltati</li> <li>ii) Surfaction</li> <li>ii) You in</li> <li>ii)</li> <li>ii)</li> <li>a) State f</li> <li>b) Descri</li> </ul>	<ul> <li>well labelled diagrams, describe how Yardangs are formed.</li> <li>ow the following processes of wind erosion occur in the desert areas.</li> <li>ion.</li> <li>ce creep.</li> <li>intend to carry out a field study in an arid area near your school.</li> <li>State two reasons for carrying out a pre-visit. (2 marks)</li> <li>State four positive effects of desert features to man that you are likely to ider</li> <li>four factors that determine the amount of surface run-off.</li> <li>be three ways in which a river transport its load.</li> </ul>	(7 marks) (2 marks) (2 marks) ntify. (4 marks) (4 marks) (6 marks)
i c) F i d 10. ( ( (	<ul> <li>i) Using</li> <li>Explain here</li> <li>i) Saltati</li> <li>ii) Surfact</li> <li>i) You in</li> <li>ii)</li> <li>a) State f</li> <li>b) Descrit</li> <li>c) Using</li> </ul>	<ul> <li>well labelled diagrams, describe how Yardangs are formed.</li> <li>ow the following processes of wind erosion occur in the desert areas.</li> <li>on.</li> <li>e creep.</li> <li>ntend to carry out a field study in an arid area near your school.</li> <li>State two reasons for carrying out a pre-visit. (2 marks)</li> <li>State four positive effects of desert features to man that you are likely to ider</li> <li>four factors that determine the amount of surface run-off.</li> <li>be three ways in which a river transport its load.</li> <li>diagrams, describe the following drainage patterns:</li> </ul>	(7 marks) (2 marks) (2 marks) ntify. (4 marks) (4 marks) (6 marks)
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ii c) H i d 10. ( ( (	<ul> <li>i) Using</li> <li>Explain here</li> <li>i) Saltati</li> <li>ii) Surface</li> <li>ii) You in</li> <li>ii)</li> <li>a) State f</li> <li>b) Descrite</li> <li>c) Using</li> <li>(i) Den</li> <li>(ii) Transition</li> <li>(ii) Carrow</li> <li>(iii) Carrow</li> <li>(iii) Carrow</li> <li>(iii) Carrow</li> <li>(iii) Carrow</li> <li>(iii) Carrow</li> <li>(iii) State</li> </ul>	<ul> <li>well labelled diagrams, describe how Yardangs are formed.</li> <li>ow the following processes of wind erosion occur in the desert areas.</li> <li>on.</li> <li>e creep.</li> <li>ntend to carry out a field study in an arid area near your school.</li> <li>State two reasons for carrying out a pre-visit. (2 marks)</li> <li>State four positive effects of desert features to man that you are likely to ider</li> <li>four factors that determine the amount of surface run-off.</li> <li>be three ways in which a river transport its load.</li> <li>diagrams, describe the following drainage patterns:</li> <li>ndritic;</li> <li>ellis;</li> <li>entripetal.</li> <li>hat is a delta?</li> <li>ate three ideal conditions under which a delta may be formed.</li> </ul>	(7 marks) (2 marks) (2 marks) ntify. (4 marks) (4 marks) (6 marks) (2 marks) (2 marks) (2 marks) (2 marks) (3 marks)

## Kenya Certificate of Secondary Education KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

## LENANA SCHOOL TRIAL MOCKS

#### 312/2 GEOGRAPHY PAPER 2 Instructions to candidates

(a) Write your <u>Name</u> and <u>Index Number</u> in the spaces provided above,

(b) This paper consists of two Sections; A and B.

(c) Answer aU the questions in Section A.

(d) Answer <u>question</u> 6 and any other two questions from Section B.

(e) This paper consists of § printed pages. Candidates should check the question paper to

ascertain that all the pages are printed as indicated and that no questions are missing.

(fi Indicate the question you have chosen to do in section B in the table below

#### For Examiner's us© only

Section	Question	Maximum score	Candidate's score
Α	1-5	25	
	6	25	
В		25	
		25	
TOTAL SCORE			

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#### **SECTION A**

#### Answer all questions in this section

1 a Define the term environment. 2mks

b. Name two divisions of physical geography. 3mks

2. a Give the forces responsible for the spherical shape of the earth 2mks

b. State reasons why the interior of the earth is still hot. 3mks

- 3 a. Highlight the characteristics of the troposphere 2mks
  - b. State the factors that influence the amount of sunshine received on the earth's surface 3mks
- 4 a what is zero lapse rate 2mks
  - b. give the main zones of the atmosphere 3mks
- 5 a.Give two types of igneous rocks 2mks

b.State any 3 uses of rocks 3mks

#### **SECTION B**

#### ANSWER QUESTION 6 AND ANY OTHER TWO IN THIS SECTION

- 6. Study the map of MUMIAS provided and answer the following questions
  - a. i .What is the magnetic variation of the map 2mks
  - ii. Name the tittle of the map 2mks
  - iii.Give any 4 types of natural vegetation found in the area covered by the map 4mks

b.Citting evidence from the map give any 2 economic activities taking place in the area covered by the map 4mks

- d. citing evidence from the area covered by the map, give any 3 functions of Mumias town 6mks
- e.Describe the Drainage of the area covered by the map 7mks
- 7 a. i.Define a lake 2mks
  - ii. State reasons why some lakes are salty 4mks
  - b.Explain the formation of a lake by faulting 6mks
  - c.Explain any 4 negative effects of human activitie on lakes 8mks
  - d. Identify the significance of lakes 5mks
- 8 a.Differentiate between magma and lava. 2mks

The diagram below shows some festures of vulcanicity



i Identify the features marked C,D and E 3mks

ii Give three examples of the feature marked F in Kenya. 3mks

b.Describe how a lava plateau is formed 7mks

c.Explain the positive significance of vulcanicity to man 10mks

9. a What is weathering 2mks

#### b.Explain how the following factors affect weathering 6mks

i Nature of parent rock

ii.plants

iii.rock texture

c.Describe how exfoliation process occurs 7mks

d. suppose you are to carry a field study on weathering

i state three objectives you would formulate for the study 3mks

ii.Give three methods you would use to record data 3mks

iii.identify any problems you are likely to face during the field study 4mks+

#### 10. a i What is glaciation 2mks

ii Describe the formation of glacier 7mks

b.Explain 3 types of moraine 6mks

c Explain any 3 conditions that lead to glacial deposition 6mks

d. identify 4 positive significance of glaciation 4mks

NAME: ..... ADM NO.....

CANDIDATES SIGNATURE......DATE......DATE

312/1

#### **GEOGRAPHY PAPER 1**

#### MARCH/APRIL, 2025.

#### TIME: 2 HOURS 45 MINUTES.

#### MOKASA I JOINT EXAMINATION.

#### Kenya Certificate of Secondary Education.

#### **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 9 printed pages.
- h. Candidates should ascertain that all the pages are printed as indicated.
- *i.* Candidates should answer the questions in English.

#### FOR EXAMINERS USE ONLY.

QUESTION	MARKS	STUDENTS SCORE
1-5	25	
6	25	
7	25	
8	25	
9	25	
10	25	
TOTAL SCORE		

#### **SECTION A**

#### Answer All Questions In This Section.

**1**. (a) Name **two** branches of geography.

(2 marks)

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

**2.** Study the diagram of the internal structure of the earth provided and answer the questions that follow.



**4.** The diagram below shows the vegetation zones on a mountain slope.



(i) Identify the zone marked **X**.

(ii) State <b>four</b> characteristics of tropical rain forest.	(4 marks)
5. (a) Give <b>two</b> types of coastal deltas.	(2 marks)

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

#### **SECTION B**

## Answer Questions 6 And Any Other Two Questions.

ıd	(a) Study the map of Tambach 1:50 000 (sheet 90/3) provided and		
	answer the Following questions.		
(3 marks)	(i) Name <i>three</i> human features found in grid square 8260. (3		
om the junction	(ii) Measure the length of all-weather road loose surface C 51from the		
your answer in	near the mining camp to the southern edge of the map. Give your		
(2 marks)	Kilometers.		
(2 marks)	(iii) Convert the map scale into a statement scale?		
۱ the area covered	(iv) Give <b>two</b> ways through which relief has been represented in the a		
(2 marks)	by the map.		
v easting 78	(c) Draw a square 15cm by 10cm to represent the area enclosed by easting		
(1 mark)	and 95 and northing 60 and 70.		
	On it mark and label the following features.		
(1 mark)	(i) River Kerio.		
(1 mark)	(ii) Lake Kamnorok.		
(1 mark)	(iii) Seasonal swamp.		
(1 mark)	(iv Tambach Municipality		
(6 marks)	(d) (i) Describe the drainage of the area covered by the map.		
town. (5 marks)	(ii) Citing evidence from the map, state <i>five</i> functions of Tambach town.		

7. (a).Differentiate between minerals and rocks.	(2 Marks)
(b)(i). A part from igneous rocks, give <b>two</b> other types of rocks accordin	ng to mode of
formation.	(3 Marks)
(ii). Describe how extrusive igneous rocks are formed.	(4 Marks)
(iii). State <b>three</b> characteristics of igneous rocks.	(3 Marks)
(c). Explain <b>three</b> significance of rocks.	(6 Marks)
(d). Form four students of Highland High school conducted a field study o	on rocks within
their school vicinity.	
(i) State <b>four</b> ways on how they prepared for the field study.	(4 Marks)
(ii) State <b>three</b> methods they used to collect statistical data.	(3 Marks)

**8.** (a) (i) What is crustal earth movements?

(ii) Name *two* boundaries which occur on tectonic plate margins. (2 marks)

(b)(i) State *three* importance of studying the plate tectonics theory.

(3 marks)

(ii) The map below shows global distribution of Fold Mountains. Name theFold Mountains marked P, Q, R and S. (4 marks)



(c) Using well labelled diagrams, describe how Fold Mountains were formed

(8 marks)

(d) Explain three effects of Fold Mountains on human activities. (6 marks)

(2 marks)

9. (a) What is climate?

## (2 marks)

(b) Study the map of climatic regions of Kenya provided and answer the questions that follow.

![](_page_13_Picture_3.jpeg)

(i) Identify the climatic zone marked <b>Y</b> .	(1 marks)
(ii) State <b>four</b> climatic characteristics of the zone marked <b>Z</b> .	(5 marks)
(c) Explain <b>two</b> human factors that influence climate.	(4 marks)
(i) Name <b>three</b> greenhouse gases.	(3 marks)
(ii) Explain <b>three</b> measures of curbing climate change.	(6 marks)
(iii) State <b>four</b> effects of climate change.	(4 marks)

**10**. (a)(i) Define the term Karst landscape.(2 Marks)

(ii). Name **three** surface features in limestone region. (3 Marks)

(b). The diagram below show underground features in a limestone area.

![](_page_14_Figure_3.jpeg)

- (i). Name the features marked X and W.
  (2 Marks)
  (ii) Describe how the feature marked V is formed.
  (7 Marks)
- (c). Give **three** reasons why there are few settlement in karst landscape. (3 Marks)
- (d). Students of Sacho High school conducted a field study on karst landscape.
  - (i). State **three** activities they were involved in during the study. (3 Marks)

(iii) Prepare a working schedule for one day field study they would have used during the study. (5 Marks)

#### Kenya Certificate of Secondary Education

## **KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025**

Candidate's Signature......Date.....

## SACHO SCHOOL TRIAL MOCKS

## 312/2 GEOGRAPHY

#### PAPER 1

#### Instructions to candidates

- (a) Write your name, admission number and class in the spaces provided above.
- (b) This paper has two sections: A and B
- (c) Answer all the questions in section A
- (d) Answer question 6 and any other two questions from section B
- (e) All answers must be written in the spaces provided after Question 10.
- (f) This paper consists of 14 printed pages.
- (g) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

#### For Examiner's Use Only

Section	Questions	Candidate's Score	Maximum Score
Α	1 – 5		25
	6		25
В			25
			25
	Total Score		100

#### **SECTION A**

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

- 1. (a) Name two heavenly bodies that form part of solar system. (2 marks)
  - (b) State three characteristics of planets.

(3 marks)

(4 marks)

2. The diagram below shows six's thermometer. Use it to answer question (a).

![](_page_16_Picture_6.jpeg)

	(a) Identify the parts labeled <b>A</b> , <b>B</b> and <b>C</b> .	(3 marks)
	(b) State <b>two</b> ways through which latitude influence the temperature of a place.	(2 marks)
3.	(a) Give <b>two</b> types of magma.	(2 marks)
	(b) Name three lava plateaus found in Kenya.	(3 marks)
4.	(a) Identify <b>two</b> lakes formed through erosion process.	(2 marks)
	(b) Give <b>three</b> reasons why some lakes are salty.	(3 marks)
5.	(a) What is weathering?	(2 marks)
	(b) State three ways through which living organisms cause weathering.	(3 marks)

#### **SECTION B**

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

- 6. Study the map of Kisumu East (1:50,000), sheet 116/2 provided and answer the following questions. (a) (i) Convert the ratio scale of the map to into a statement scale. (2 marks)
  - (ii) Give six figure grid reference of the trigonometrical station 1154 SKP 21 in the southern part of the area covered by the map. (2 marks)
  - (iii) What is the bearing of Rabuor market from Air photo Principal point in **GR 0986**? (2 marks)
  - (iv) What is the length in kilometres of the section of railway line west of the easting 00 to Kisumu station? (2 marks)

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

- (b) Describe the relief of the area covered by the map.
- (c) Citing evidence from the map, give two factors that influence cultivation of sugarcane in the area covered by the map. (4 marks)
- (d) Identify three social activities carried out within Kisumu municipality. Give evidence. (6 marks)

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

(2 marks) (3 marks)

(ii) A part from fold mountains, give three other features formed through folding.(b) The map below shows the distribution of fold mountains in the world.

G	To Beender fun	stores and
62800	F	
<b>D</b>	lo lo	P.C. S.
	a	a a

	(i) Name the mountains marked <b>D</b> and <b>E</b> .	(2 marks)
	(ii) Identify the orogenies the mountains marked $\mathbf{F}$ and $\mathbf{G}$ were formed.	(2 marks)
	(c) With the aid of well labeled diagrams, describe the formation of the following types	of folds.
	(i) Asymmetrical folds.	(4 marks)
	(ii) Overfolds.	(4 marks)
	(d) Explain <b>four</b> positive influence of folding to human activities.	(8 marks)
8.	(a) What is derived vegetation?	(2 marks)
	(b) Explain how the following factors influence the distribution of vegetation.	
	(i) Winds	(4 marks)
	(ii) Rainfall	(4 marks)
	(c) (i) A part from forests, give <b>two</b> other major vegetation types of the world.	(2 marks)
	(ii) Describe the characteristics of tropical rainforests.	(6 marks)
	(d) Your class is planning to carry out a field study on vegetation around the school.	
	(i) Give <b>three</b> sources of information you are likely to use before the study.	(3 marks)
	(ii) Identify <b>four</b> challenges you are likely to encounter during the study.	(4 marks)
9.	(a) Differentiate between a river confluence and interfluve.	(2 marks)
	(b) Explain <b>three</b> types of river erosion.	(6 marks)
	(c) (i) A part from waterfalls, give <b>three</b> other features of river erosion.	(3 marks)
	(ii) State <b>four</b> ways through which waterfalls may be formed.	(4 marks)
	(d) Describe how the following features are formed.	
	(i) Flood plain	(5 marks)
	(ii) Arcuate delta	(5 marks)
10.	(a) Give <b>four</b> components of the soil.	(4 marks)
	(b) Explain how the following factors influence soil formation.	
	(i) Living organisms	(4 marks)
	(ii) Relief	(4 marks)
	(c) Explain <b>four</b> causes of soil erosion.	(8 marks)
	(d) State <b>five</b> significance of soils.	(5 marks)

## Kenya Certificate of Secondary Education KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

## PANGANI GIRLS HIGH SCHOOL

#### Time: 2 <sup>3</sup>⁄<sub>4</sub> Hours

#### **INSTRUCTIONS TO CANDIDATES:**

- This paper consists of two sections: A and B
- Answer all the questions in section A
- Answer question 6 and any two questions from section B
- All answers **must** be written in the answer booklet provided

#### For official use only

Question	Max score	Student score
Section A	25	
6	25	
	25	
	25	
Total	100	

#### **SECTION A: 25 MARKS**

#### Answer all the questions from this section.

1. (a) Differentiate between asteroids and meteors.			
(b)State three characteristics of the sun	(3 marks)		
2. (a) What is climax vegetation?	(2 marks)		
(b) State <b>two</b> ways through which climate influences the distribution of vegetation.	(2 marks)		
3. (a) Give <b>two</b> features of deposition that result from action of water in arid areas.	(2 marks)		
(b) State <b>three</b> positive effects of desert features.	(3 marks)		
4. (a) Define the following terms as used in rivers			
(i) Confluence	(2 mark)		
(ii) Drainage basin	(2 marks)		
b) State <b>two</b> factors that influence the rate of river erosion.			
5. The diagram below shows an example of a local wind			

![](_page_19_Figure_3.jpeg)

- a) Identify the local wind
- b) Describe how the wind is formed. (4marks)

#### **SECTION B: 75MARKS**

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

- 6. Study the map of Tambach sheet 90/3 (1:50000) provided and answer the questions that follow.
  - a) i) In which District is the South Western corner of the map? (1 mark)
    - ii) Measure the distance of the road C 52 from Northing 70 to Northing 75. (2 marks)

(1 mark)

b) i) Citing evidence from the map state three social services offered in the area covered by the (3 marks) map. ii) Citing evidence from map, state three economic activities carried out in the area covered by the map. (3 marks) c) i) Describe the drainage of the area covered by the map. (4 marks) ii) Describe the distribution of vegetation in the area covered by the map. (4 marks) d) i) Using a scale of **1cm represents 20 m**, draw a cross section along northing **57** starting from easting 85 to 91. (4 marks) (3 marks) ii) On your cross section mark and name; Road C 51 to Kabarnet • Gentle slope **River Kerio** iii) Are the starting and end points intervisible? (1 mark) 7. (a) (i) Differentiate between rocks and minerals (2 marks) (ii) Give three ways in which rocks can be classified. (3 marks) b) (i) Name one example of each of the following types of sedimentary rocks. (3 marks) Chlorides • Arenaceous Carbonaceous • ii) Describe how sedimentary rocks are formed through physical processes. (4 marks) iii) State three changes that occur in rocks during metamorphism. (3 maks) e) Give **two** reasons why sedimentary rocks are dominant along the Kenyan Coasts (2 marks) f) Students from Elites School carried a field study on rocks in their county. i) State three reasons why it would be necessary for them to conduct a reconnaissance to the study area. (3 marks) ii) Give two methods they used to record data (2 marks) iii) State three importance of rocks they identified. (3 marks) 8. a) i) What is an aquifer? (2 marks)

(ii) Apart from wells state **three** ways in which underground water may reach the surface of the Earth. (3 marks)

(iii) Explain <b>four</b> conditions necessary for the formation of <b>artesian well</b> .		
(b) With the aid of well labeled diagrams describe how the following feat	ures are formed.	
(i) Grikes and clints.	(6 marks)	
(ii) Stalagmites.	(6 marks)	
9. a) i) What is aridity?	(2 marks)	
ii) What is desertification?	(2 marks)	
b) State five causes of aridity and desertification.	(5 marks)	
c) i) Explain <b>four</b> effects of aridity and desertification.	(8 marks)	
ii) Suggest three possible solutions to aridity and desertification.	(3 marks)	
d) Students from Elimu Bora secondary school went for a field study in a	an arid area.	
i) State <b>two</b> reasons why they needed to seek permission	(2 marks)	
ii) State three problems they were likely to encounter	(3marks)	
10. (a)(i) Define the term ocean.	(2marks)	
(ii) State three conditions for the development of a beach.	(3marks)	
(iii) Describe how wave erosion takes place through corrasion.	(3 marks)	
(b) With the aid of well labeled diagrams describe how a stump is formed	d. (8 marks)	

(c) Study the diagram below showing a type of coast and answer the questions that follow.

![](_page_21_Figure_2.jpeg)

(i) Identify the type of coast represented by the diagram.

#### (1mark)

(ii) State **two** factors influencing the development of the above type of coast shown by the diagram. (2 marks)

d) Explain **three** significance of coastal features to human activities. (6marks)

## Kenya Certificate of Secondary Education KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

## STAREHE BOYS CENTER SCHOOL TRIAL MOCKS

312/1 GEOGRAPHY PAPER 1 TIME: 2<sup>1</sup>/2 hours

#### **INSTRUCTIONS TO THE CANDIDATES**

- a) This paper has two sections. Section A and B.
- b) Answer all the questions in section A.
- c) Answer question 6 and any other two questions from section B.
- d) All answers must be written in the answer booklet provided.
- e) Candidates should answer the questions in English.

#### For Examination use only.

	r		
	Maximum Score	Candidate Score	
Section A.	25		
Question 6	25		
Question 7	25		
Question 8	25		
Question 9	25		
Question 10	25		
TOTAL	100%		

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FOR MORE PAPERS FOR ALL SUBJECTS AND MARKING SCHEMES

#### **SECTION A: (25 MARKS**

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

1.	(a) Name the main types of environment.	(2 mks)
	(b) State <b>three</b> ways a civil engineer benefits from the study of Geography.	(3 mks)
2.	(a) List <b>three</b> main forces responsible for the ageoid shape of the earth.	(3 mks)
	(b) State <b>two</b> ways geographers study the interior of the earth crust.	(2 mks)
3.	(a) Give <b>two</b> reasons why sedimentary rocks are dominant along the coast of Kenya.	(2 mks)
	(b) State three main characteristics which determine the chemical composition of igned	ous rocks.
		(3 mks)

**4.** (a) Define weather. (2 mks)

(b) State **three** reasons why chemical weathering is prevalent in equatorial climate. (3 mks)

5. (a) Use the table below to answer the questions that follow:

MONTHS	J	F	Μ	Α	Μ	J	J	А	S	0	Ν	D
TEMP <sup>0</sup>	23	23	23	24	23	22	23	22	23	23	24	23
RAIN (MM)	1313	1400	1502	1460	1480	1480	1500	1508	1300	1480	1508	1490

(a) Calculate:

(i)	Temperature range	(1 mk)
	(ii) Annual rainfall	(1 mk)

(b) Describe the characteristics of the climate experienced in the above climatic region. (3 mks

#### SECTION B

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

#### 6. Study the map of MIGWANI (1: 50,000) sheet 151 | 1 provided and answer the following questions.

(a)	(i) Convert the scale of the map into statement scale.	(1 mk)
	(ii) Identify a drainage related feature found in grid 0736978.	(1 mk)
(b)	(i) Give <b>two</b> types of natural vegetation found to the East of easting 10.	(2 mks)
	(ii) Describe the relief of the area covered by the map.	(5 mks)
(c)	(i) Citing evidence give <b>four</b> functions of the GWANI centre.	(4 mks)
	(ii) Measure the length of the dry weather road from the junction grid refere	nce 923789 to
	grid reference 001840 in km.	(2 mks)
(d)	(i) Reduce by 2 and draw a rectangle to represent the area bound by Easting	s 00 and 10 and
	Northings 62 and 70.	(2 mks)
	(ii) In the rectangle you have drawn, label	
	• Forest	(1 mk)
	River Vinda	(1 mk)
	• Dry Weather road	(1 mk)
	(iii) Give the new scale of the drawn rectangle.	(1 mk)
(e) So	ome students were requested to carry out field study on drainage patterns in the	e area covered by

the map.

(i) Name **two** drainage patterns they observed in the area covered by the map. (2 mks)

(2 mks) (2 mks)

## **7.** (a) (i) Define **folding**.

8.

(ii) Name the **main** cause of folding of crustal rocks.

(1 mk)

(b) Study the world map provided and answer the questions below:-

![](_page_24_Figure_6.jpeg)

- (i) Name the fold mountains marked **X**, **Y**, **Z**. (3 mk)
- (ii) Using diagrams, show how the continental drift theory explains the formation of fold mountains.(10 mks)
- (c) Students of a school in Trans-Nzoia County intend to carry out a field study on folding.

	(i) Give <b>three</b> reasons why they require a working schedule.		
	(ii) List <b>two</b> methods of data analysis.	(3 mks)	
(d) Li	st <b>four</b> positive effects of Fold Mountains on human activities.	(4 mks)	
(a)	(i) Distinguish between a river tributary and a river confluence.	(2 mks)	
(ii) Describe how a river erodes its channel by the following processes.			
	• Hydraulic action	(3 mks)	
	Corrasion	(3 mks)	
(b)	(i) Explain <b>three</b> factors which influence the rate of river erosion.	(6 mks)	

(ii) State three reasons why levees and raised river beds make flooding more dangerous.

(3 mks)

(c) The diagrams below represent drainage patterns.

![](_page_24_Figure_14.jpeg)

![](_page_24_Figure_15.jpeg)

![](_page_24_Figure_16.jpeg)

(i) Identify the drainage patterns **N**, **P** and **Q**.

(ii) Describe how a river capture occurs.

(2 mks)

9. (a) (i)Define the term Karst Scenery.

10.

(ii) The diagram below shows some of the surface features in a Karst Scenery. Use it to answer question (ii) below.

![](_page_25_Figure_4.jpeg)

	Name the features marked $\mathbf{X}$ and $\mathbf{Z}$ .	(2mks)
	(i) Describe how a stalagmite is formed.	(5 mks)
	(ii) State <b>five</b> conditions necessary for the development of a Karst landscape.	(5 mks)
(c) Stu	idents of a school in Machakos County intend to carry out a field study in a limesto	one area.
	(i) Name <b>three</b> methods of data collection.	(3 mks)
	(ii) List <b>two</b> problems students are likely to encounter during the field study.	(2 mks)
(d) Ex	plain three significance of limestone landscape on human activities.	(6 mks)
(a)	(i) Differentiate between parent material and bed rock.	(2 mks)
	(ii) Name <b>two</b> types of soil according to texture.	(2 mks)
(b)	(i) Explain how each one of the following factors influence soil formation.	
	Parent rock	(3 mks)
	• Topography	(3 mks)
	Living organisms	(3 mks)
	(ii) State <b>four</b> factors which are responsible for the development of a soil catena.	(4 mks)
(c)	(i) State <b>two</b> causes of soil degeneration.	(2 mks)
	(ii) Give <b>four</b> characteristics of desert soils.	(4 mks)
	(iii) State <b>two</b> ways of conserving soil.	(2 mks)

#### Kenya Certificate of Secondary Education

## **KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025**

## MERU SCHOOL TRIAL MOCKS

312/1 GEOGRAPHY PAPER 1 TIME: 2<sup>1</sup>/<sub>2</sub> hours INSTRUCTIONS TO THE CANDIDATES

a) This paper has two sections. Section A and B.

b) Answer all the questions in section A.

c) Answer question 6 and any other two questions from section B.

d) All answers must be written in the answer booklet provided.

e) Candidates should answer the questions in English.

## For Examination use only.

		1
	Maximum Score	<b>Candidate Score</b>
Section A.	25	
Question 6	25	
Question 7	25	
Question 8	25	
Question 9	25	
Question 10	25	
TOTAL	100%	

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#### **SECTION A**

#### Answer ALL the questions in this section.

1.	a) What does the word 'Geo' mean?	(1 mark)
	b) Give <b>four</b> areas of great interest to a physical geographer.	(4 marks)
2.	a) Name <b>two</b> plains found in Kenya.	(2 marks)
	b) State three ways in which plains are formed.	(3 marks)
3.	a) Identify <b>two</b> types of local winds.	(2 marks)
	b) Describe briefly how a land breeze occurs.	(3 marks)
4.	a) Define river capture.	(2 marks)
	b) List <b>three</b> evidences of river capture.	(3 marks)

#### 5. The diagram below shows a barchan.

![](_page_27_Figure_4.jpeg)

a)	Name the feature marked N.	(1 mark)
b)	Name the air currents marked P.	(1 mark)
c)	Describe how a barchan is formed.	(3 marks)

#### **SECTION B**

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

6. Study the map of Migwani 1:50,000 (sheet 151/1) provided and answer the following questions.

a) :	i)	What type of map is Migwani map extract?	(2 marks)
	ii)	What is the height of the highest point on the area covered by the map?	(2 marks)
	iii)	Identify <b>two</b> types of natural vegetation on the area covered by the map.	(2 marks)
	iv)	Determine the direction and bearing of Kauma dam from Usiani school.	(3 marks)

	b)	Draw a square 14cm by 14cm to represent the area shown on the map between easting					
		06 and 13 and northing 77 and 84.	(1 mark)				
		On the square, mark and name the following:					
	i)	Dry weather road	(1 mark)				
	ii)	Mboni dam	(1 mark)				
	iii)	Water pipeline	(1 mark)				
	iv)	River Ngoo	(1 mark)				
	c)	i) Using evidence from the map, describe the climate of the area.	(4 marks)				
		ii) What <b>two</b> problems do the climatic conditions you have described above pose to					
		the area?	(2 marks)				
		iii) Citing evidence from the map, mention two attempts that have been made to solve	the				
		problems above.	(2 marks)				
	d)	Describe the topography of the region shown on the map.	(3 marks)				
7.	a)	i) Describe how a tarn is formed.	(4 marks)				
		ii) Name <b>two</b> areas in East Africa where tarns are found.	(2 marks)				
	b)	State five external land forming processes that lead to formation of lakes.	(5 marks)				
	c)	Explain the effects of each of the following on lakes in Kenya:					
	i)	Deforestation	(2 marks)				
	ii)	Industrialization	(2 marks)				
	iii)	Waterweeds	(2 marks)				
	d)	Explain <b>four</b> ways by which human activities threaten the existence of lakes in Kenya.	(8 marks)				
8.	a)	i) Distinguish between a spring and a well.	(2 marks)				
		ii) State three sources of underground water.	(3 marks)				
	b)	Explain how the following factors influence the existence of underground water.					
	i)	nature of rocks	(2 marks)				
	ii)	vegetation cover	(2 marks)				
	c)	i) What is an artesian well?	(1 mark)				
		ii) Explain <b>three</b> conditions which are ideal for the formation of artesian wells.	(6 marks)				
	iii)	Draw a neat diagram of an artesian basin and on it mark and name the following.	(2 marks)				
	-	The water-intake area	(1 mark)				
	-	An aquifer	(1 mark)				
	-	The impermeable rock	(1 mark)				
	iv)	Explain two problems associated with artesian wells.	(4 marks)				

a)	a) i)		State three factors which cause soil creep.	(3 marks)
		ii)	describe four effects of soil creep.	(4 marks)
	b) i)		State <b>two</b> conditions which may influence the occurrence of landslides.	(2 marks)
		ii)	Name <b>three</b> forms of landslides.	(3 marks)
		iii)	Apart from landslides, name two other forms of rapid mass wasting.	(2 marks)

c) The diagram below shows mass movement on a slope.

![](_page_29_Figure_2.jpeg)

Name the:

i)	Type of mass movement shown.					
ii)	Features M and N.					
d)	Explain <b>four</b> effects of mass wasting on the physical environment.	(8 marks)				
a)	i) What is an earthquake?	(2 marks)				
	ii) Explain three causes of earthquakes	(6 marks)				
b)	i) Using an illustration distinguish between seismic focus and epicentre.	(4 marks)				
	ii) Name <b>two</b> types of earthquakes waves.	(2 marks)				
c)	Student from Magomani High School carried out a field study in a region affected by					
	earthquakes.					
i)	Formulate a null hypothesis for their study. (1 m					
ii)	State <b>two</b> reasons why they conducted a reconnaissance (pre-visit).					
iii)	) List <b>two</b> methods they used to record data during the study. (2)					
d)	Explain <b>three</b> effects of earthquakes on the human environment. (6 m					

#### Kenya Certificate of Secondary Education

## **KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025**

## **KISII SCHOOL TRIAL MOCKS**

312/1 GEOGRAPHY PAPER 1 TIME: 2<sup>1</sup>/<sub>2</sub> hours <u>INSTRUCTIONS TO THE CANDIDATES</u>

a) This paper has two sections. Section A and B.

b) Answer all the questions in section A.

c) Answer question 6 and any other two questions from section B.

d) All answers must be written in the answer booklet provided.

e) Candidates should answer the questions in English.

## For Examination use only.

	Maximum Score	<b>Candidate Score</b>
Section A.	25	
Question 6	25	
Question 7	25	
Question 8	25	
Question 9	25	
Question 10	25	
TOTAL	100%	

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#### **SECTION A**

#### Answer all questions

- (a) Name **two** types of tectonic plate boundaries (2mks)
  - (b) Give **three** proofs supporting the theory of continental drift.

1.

(3mks)

The diagram below represents zones of natural vegetation on a mountain within the tropical region.
 Use it to answer question (a)

![](_page_31_Figure_6.jpeg)

	(a)	(i)	Identify vegetation zones A and B (2)	mks)
		(ii)	Give three reasons why the mountain top has no vegetation (3)	mks)
3.	(a)	Descr	ibe three factors that influence wind transportation of materials	n a desert. (3mks)
	(b)	Draw	a well-labelled diagram of a barchans dune. (3mks)	
4.	(a)	Name	e a lake in East Africa that was formed through the following pro-	ocesses.
		(i)	Crustal warping	(1mk)
		(ii)	River deposition	(1mk)
		(iii)	Glacial erosion	(1mk)
	(b)	Give	two effects of human-made lakes to the physical environment.	(2mks)
5.	(a)	Differ	rentiate between elluviation and illuviation soil forming processe	es. (2mks)
	(b)	Identi	fy two causes of chemical degeneration of soil	(3mks)
			SECTION B	

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

6. Study the map of Kitale 1:50,000 (sheet 75/3) provided and answer the following questions(a) (i) Identify the types of scales used in the area covered by

		(ii)	the map. Name <b>two</b> physical features found in grid so	(2mks) quare 2816.
				(2mks)
		(iii)	Give <b>two</b> methods of showing relief found i	in the area
			covered by the map.	(2mks)
		(iv)	Calculate the area of the area covered by the Farm, give your answer in square kilometer	e papyrus swamp near Keelah s. (2mks)
(t	o) On th	e square repres square	e draw a square measuring 10cm by 10cm to sent the area enclosed by Easting 25 and 30 e mark and draw name the following. (5mks)	and Northings 15 and 20. On the
		(i)	All weather road loose surface	
		(ii)	River Koitobos	
		(iii)	Forested area	
(c)	Descri	be the d	lrainage of the area covered by the map	(6mks)
(d)	Citing area co	evidend overed b	ce from the map, explain three factors favouring by the map. (6mks)	ng the growth of the forest in the
(a)	(i)	What	is a mineral?	(2mks)
	(ii)	Descr	tibe the following characteristics of minerals	(2mks)
		I.	Cleavage	(2mks)
		II.	Luster	(2mks)
		III.	Tenacity	(2mks)
(b) (i	) Diffe	rentiate	between the processes of the formation of plu	atonic rocks and volcanic rocks.
(	ii) Nam	e two ez	xamples of extrusive igneous rocks	(2mks)
(c)	State	three cl	haracteristics of sedimentary rocks	(3mks)
(d)	Expla	in the s	ignificance of rocks to the economy of Kenya	under the following
	(i)	Ener	зу	(2mks)
	(ii)	Wate	er	(2mks)
(e) S	uppose	form IV	students undertook a field study of rocks wit	hin the
	local e	environr	nent.	
(i	)	W	Why would they need the following equipment	s for their study
	Ι	. Geol	logical hammer	(1mk)
	Ι	I. Poly	thene bags	(1mk)
(i	i)	S	State <b>two</b> hypothesis for their study	(2mks)
(i	ii)	Outline	two follow-up activities they may have under	rtaken for their study. (2mks)

- (a) (i) Define faulting
  - (ii) Study the diagram below and use to answer the questions that follow.

![](_page_33_Figure_2.jpeg)

Identify the parts labeled X and Y

(2mks)

- (b) (i) Using well-labelled diagrams describe how a rift valley may be tensional forces (7mks)
  - (ii) Explain the effects of faulting on the human environment (6mks)
- (c) (i) Differentiate between vulcanicity and volcanicity (2mks)
  - (ii) State **three** characteristics of a composite volcanic (3mks)
  - (iii) Describe the influence of mount Kenya on drainage. (2mks)
- (a) (i) Differentiate between mass wasting and mass movement (2mks)
  - (ii) Give **two** agents of weathering (2mks)
  - (iii) State **three** factors influencing the rate of weathering (3mks)
  - (iv) Give **two** processes of weathering as a result of temperature change(2mks)
- (b) Explain three significances of weathering to the physical and human environment (6mks)
- (c) (i) State **two** physical conditions that may influence landslides

(2mks)

formed by

(ii) The diagram below shows a type of landslide

![](_page_33_Picture_18.jpeg)

8.

(d) Explain the effects of mass wasting on the following

	(i)	Creation of lakes	(2mks)
	(ii)	Formation of new landforms (2	mks)
(a)	(i)	Define the hydrological cycle	(2mks)
	(ii)	State three factors that determine the amount of surface run-off	(3mks)
(b)	(i)	Outline three characteristics of a river in its old stage. (3mks)	
	(ii)	Explain <b>three</b> causes of river rejuvenation (6mks)	
(c)	Using	g well labeled diagram, describe the formation of antecedent drains	age system.
(d)	Your class is planning to carry out a filed study of a waterfall		
	(i)	Cive three reasons why it is important to study the work of	

- (i) Give three reasons why it is important to study the work of rivers through field work.
- (ii) State **three** problems you are likely to encounter during the field study.

## Kenya Certificate of Secondary Education KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

# FRIENDS' SCHOOL KAMUSINGA TRIAL MOCKS

GEOGRAPHY PAPER 1 TIME: 2<sup>1/2</sup> hours <u>INSTRUCTIONS TO THE CANDIDATES</u>

312/1

a) This paper has two sections. Section A and B.

b) Answer all the questions in section A.

c) Answer question 6 and any other two questions from section B.

*d*) All answers *must* be written in the answer booklet provided.

e) Candidates should answer the questions in English.

## For Examination use only.

	Maximum Score	Candidate Score
Section A.	25	
Question 6	25	
Question 7	25	
Question 8	25	
Question 9	25	
Question 10	25	
TOTAL	100%	

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#### **SECTION A**

	-							
	Ans	nswer <u>ALL</u> questions in this section.						
1.	a)	State how the following forces influence the shape of the earth.	(3 marks)					
	i)	Force of gravity						
	ii)	Centripetal force						
	iii)	Centrifugal force						
	b)	Outline three significances of weather forecasting.	(3 marks)					
2.	a)	State <b>two</b> factors that determine the size of a lake.	(2 marks)					
	b)	Describe how a caldera lake is formed.	(3 marks)					
3.	a)	Differentiate between soil profile and soil catena.	(2 marks)					
	b)	State three factors which increase the process of leaching in tropical soils.	(3 marks)					
4.	a)	Distinguish between mass wasting and mass movement.	(2 marks)					
	b)	Name three processes of chemical weathering.	(3 marks)					
5.	a)	State <b>two</b> types of waves.	(2 marks)					

b) The diagram below shows a breaking wave.

![](_page_36_Figure_3.jpeg)

b) Name the parts X and Y.

(2 marks)

#### **SECTION B**

#### Answer question <u>6 and any other two</u> questions from this section.

6.	Study the map of Migwani 1:50,000 (sheet 151/1) provided and answer the following
	questions.

a)	i)	What is the four figure grid reference of the court house at Ndooa town?	(2 marks)
	ii)	What is the altitude of the highest point in the area covered by the map?	(2 marks)
	iii)	Give <b>two</b> types of natural vegetation found in the area covered by the map?	(2 marks)
b)	i)	Measure the distance of the all-weather road bound surface (C94) from the junction	
		at grid reference 9278 to grid reference 9083. Give your answer in kilometers.	(2 marks)
	ii)	What is the bearing of the air photo principal point at grid square 9575 from the dam	n
		at grid reference 9078.	(2 marks)
c)	) Draw a rectangle 10cm by 8cm to represent the area enclosed by Eastings 90 and 99, and		d
	Nor	things 62 and 69.	(1 mark)
	On	the rectangle mark and name the following:	(4 marks)
i)	Air	photo principal point	
ii)	Dam		
iii)	Secondary trigonometrical station		
iv)	Куι	ılu Hill	
d)	Exp	plain three functions of Ndooa town.	(6 marks)

(4 marks)

(2 marks)

- e) Describe the drainage of the area covered by the map.
- 7. a) i) Define the term tsunami.
  - ii) The diagram below shows the mechanisms of earthquakes.

![](_page_37_Figure_7.jpeg)

		Name the parts labelled P, Q and R.	(3 marks)
b)	i)	Using illustrations, describe three types of earthquake waves.	(9 marks)
	ii)	Explain <b>four</b> proofs that the crust is in constant movement.	(8 marks)
c)	Sta	te three ways in which the earth's crust is affected by the earthquakes.	(3 marks)

8.	a)	i)	Define the term <u>artesian basin</u> .	(2 marks)
		ii)	State <b>four</b> factors influencing the development of a karst scenery.	(4 marks)
	b)	i)	Give <b>four</b> underground features in karst scenery.	(4 marks)
		ii)	Describe briefly the formation of the following features in karst scenery;	
		_	Polje	(3 marks)
		_	Doline	(3 marks)
	c)	i)	Give <b>three</b> sources of ground water.	(3 marks)
		ii)	Explain three significances of resultant features in limestone areas to human activity	ties.
				(6 marks)
9.	a)	i)	Explain three physical factors influencing the distribution of vegetation in Kenya.	(6 marks)
		ii)	State <b>two</b> major vegetation regions of Kenya.	(2 marks)
	b)	i)	Describe three characteristics of the tropical rain forest.	(6 marks)
		ii)	State three problems experienced during the exploitation of the tropical rainforest.	(3 marks)
	c)	Suppose you were to carry out a field study on vegetation on Mt. Kenya.		
	i)	Sta	te <b>three</b> objectives you would formulate for the study.	(3 marks)
	ii)	Lis	t <b>three</b> methods you would use to record your data.	(3 marks)
	iii)	Giv	e <b>two</b> uses of mountain vegetation you are likely to study about.	(2 marks)
10.	a)	Nai	me three types of faults.	(3 marks)
	b)	i)	Apart from the Rift valley name three other features resulting from faulting.	(3 marks)
		ii)	With the aid of well labelled diagrams, describe the formation of the rift valley by	
			tensional forces.	(7 marks)
	c)	Exp	blain the negative effects of faulting on human activities.	(6 marks)
	d)	Yo	ur class plans to carry out a field study on a faulted landscape.	
	i)	Sta	te three reasons why they would carry out a reconnaissance.	(3 marks)
	ii)	Nai	me three methods they would use to record their findings.	(3 marks)

## Kenya Certificate of Secondary Education

## **KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025**

Name	Admission number
Candidate's Signature	Date

## **ALLIANCE BOYS HIGH SCHOOL**

## 312/1 GEOGRAPHY PAPER 1 TIME: 2<sup>1</sup>/<sub>2</sub> hours <u>Instructions to Candidates</u>

a) Answer all questions in section A.

- b) In section **B**, Answer question **6** and any other **two** questions from the remaining questions.
- *c)* Answer all questions using the answer booklet provided.
- *d*) Candidate should check that all pages are printed and no questions are missing.

#### For Examination use only.

	Maximum Score	Candidate Score
Section A.	25	
Question 6	25	
Question 7	25	
Question 8	25	
Question 9	25	
Question 10	25	
TOTAL	100%	

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FOR MORE PAPERS FOR ALL SUBJECTS AND MARKING SCHEMES

#### **SECTION A**

#### Answer all 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 <b>two</b> major earthquakes zones of the world	(2 marks)
3 a) Apart from aspect, list <b>three</b> other factors that influence the distribution of	f natural vegetation
	(3 marks)
b) State two ways through which aspect influences the distribution of natural	l vegetation
	(2 marks)
4 a) State <b>three</b> conditions necessary for the development of Karst scenery	(3 marks)

b) Give <b>two</b> reasons why there are few settlements in Karst landscapes	(2 marks)
5 a) Give <b>two</b> causes of river rejuvenation	(2 marks)
b) Identify <b>three</b> 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 Mumias (Sheet No. 101/2) provided and answer the following questions.

a) i) What type of map is Tambach?	(1 mark)
ii)What is the name of the map provided? (sheet name)	(1 mark)
iii) What is the title of the map provided? (sheet title)	(1 mark)
<b>b)</b> i) What information is contained on the sheet title?	(2 marks)
ii) Give four ways of identifying the map provided.	(4 marks)
c) Name two types of scales found on the map.	(2 marks)
d) Convert the scale of the map into statement scale.	(2 marks)
e) i.What is the contour interval of the map?	(1 mark)
ii.What is the magnetic variation of the map?	(2 marks)
iii.What is the magnetic declination of the map as at 1980?	(2 marks)
iv. What is the latitudinal extend of the area covered by the map.	(2 marks)
v. What is the latitude and longitude of the South East corner of the map?	2 (2 marks)
vi.Calculate the area of the planted forest at Kapchemutwa. Give your ans	swer in square kilometres.
	(2 marks)
7 a) i) What is a rock	(2 marks)
ii) Give <b>two</b> examples of plutonic igneous rocks	(2 marks)
b) Describe the processes of formation of each of the following types of sedi	mentary rocks:
i) Mechanically formed	(4 marks)
ii) Organically formed	(4 marks)
c) State the characteristics of rocks	(5 marks)
d) You are planning to carry out a field study on rocks within the local enviro	onment.
i) List <b>three</b> methods you would use to record data	(3 marks)
ii) State three problems you are likely to encounter	(3 marks)
iii) Give <b>two</b> economic uses of rocks you are likely to identify	(2 marks)

8. a) i)Apart from an over thrust fold, name three other types of folds	(3 marks)
ii) With an aid of a well labelled diagram, describe the formation of an over thrus	st 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) Describe the formation of fold mountains according to the convectional current	nt theory
(4 marks) c) Explain <b>four</b> effects of folding on physical environment (8	3 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 v	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	(2 marks)
	(2  morb)
• Soil texture	(2  marks)
• Soil porosity	(2 marks)
• Son colour	(2 marks)
<ul><li>c) State <b>four</b> negative effects of soil erosion</li><li>d) You are planning to carry out field study on soil around your school</li></ul>	(+ marks)
i) State <b>four</b> preparations that you will make for the study	(4 marks)
ii) Give <b>three</b> reasons why it is important to study soils through the field study	(3 marks)
	· /

## Kenya Certificate of Secondary Education KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

## **ALLIANCE GIRLS HIGH SCHOOL**

## 312/1 GEOGRAPHY PAPER 1 TIME: 2<sup>1</sup>/<sub>2</sub> hours <u>Instructions to Candidates</u>

a) Answer all questions in section A.

- b) In section **B**, Answer question **6** and any other **two** questions from the remaining questions.
- *c)* Answer all questions using the answer booklet provided.
- *d*) Candidate should check that all pages are printed and no questions are missing.

## For Examination use only.

	Maximum Score	Candidate Score
Section A.	25	
Question 6	25	
Question 7	25	
Question 8	25	
Question 9	25	
Question 10	25	
TOTAL	100%	

#### CONTACT US ON 0724351706/0726960003

FOR MORE PAPERS FOR ALL SUBJECTS AND MARKING SCHEMES

#### SECTION A (25MKS) Answer all the questions in this section

(b) What is environment?

1. (a) Name two main branches of geography.

2. (a) Name three forms of precipitation common in Kenya.

(b) Give two reasons why the recording of data at school weather station ma	y be inaccurate. (2mks)
3. (a) The diagram below shows intrusive volcanic features.	(2000)
Name the features marked E, F and G.	(3mks)
(b) State three effects of vulcanicity on agriculture.	(3mks)
4. (a) List three types of glaciers.	(3mks)
(b) Identify the two main glacier erosion processes.	(2mks)
5. (a) Define River rejuvenation.	(2mks)
(b) State three factors influencing the rate of river erosion.	(3mks)
SECTION B (75MKS)	
Answer question 6 (compulsory) and any other two question from this	s section.
<ul> <li>6. Study the map of Mumias (Sheet No. 101/2) provided and answer the</li> <li>a) i.Name an area bordering Tambach to the west.</li> <li>ii.Identify three physical features found in the grid square 9581.</li> <li>iii.Name three hygroscopic features shown in the area covered by the map</li> </ul>	e following questions. (2 marks) (3 marks) p.(3 marks)
<ul> <li>b) i.Identify two human features found in the grid square 7979.</li> <li>ii. Identify two forms of land transport found in the area covered by the m</li> <li>c) i.Give the six figure reference for the school at Kapluk.</li> <li>ii. What is the six-figure grid reference of the air photo principal 15/KE/3</li> </ul>	(2 marks) ap. (2 marks) (2 marks) 97/079? (2 marks)
iii. What is the four grid reference of mining camp?	(2 marks)
<ul> <li>d) i.Name two methods of representing relief used in the map.</li> <li>ii.What is the direction of cattle dip on grid 8470 from air photo principal iii.What is the bearing of air photo principal point at grid square 0180 from 9085 at grid square 0475?</li> <li>iv. Massure the length of all weather read hourd surface C51 from investigation.</li> </ul>	(2 marks) 15/KE/37/082? (2marks) n the trigonometrical station (2 marks)
mining camp to Kabarnet in kilometres.	(2 marks)
7. (a) Identify three characteristics of minerals	
(SIIIKS) (b)(i) What is rock metamorphism?	
	(Imks)
(ii) Give three effects of heat on sedimentary rocks	(2mks) (3mks)

- (c) Describe the following types of rock metamorphism.
- (i) Thermal metamorphism.

(3mks)

(2mks) (2mks)

(3mks)

(ii)	Hydrothermal metamorphism.	(3mks)	
(iii)	(d) Explain three ways in which rocks are significant to human activities in Kenya	. (6mks)	
(iv)	(e) Supposing you were to carry out a field study on rocks at the Kenya coast.		
8.(a)	<ul> <li>(i) Name three equipment you will be required to carry for the study.</li> <li>(ii) (ii) Why would sampling part of the area be necessary as you conduct the field s</li> <li>(i) Define the term folding.</li> <li>(ii)State two factors influencing the extent to which sedimentary rocks can be folded</li> </ul>	(3mks) tudy. (2mks) (2mks) d.(2mks)	
(b) Na (c) W	<ul> <li>(b) Name the fold mountains in the following continent.</li> <li>Asia. (1mk)</li> <li>North America. (1mk)</li> <li>Europe. (1mk)</li> <li>(c) With the aid of a well labelled diagram in each case, describe the formation of the following features:</li> </ul>		
(d) 9 (a)	<ul> <li>(i) Anticlinorium and Synclinorium complex</li> <li>(ii) Overthrust fold.</li> <li>Explain the effects of fold mountains on climate.</li> <li>(i) Define the following terms:</li> </ul>	(4mks) (6mks) (8mks)	
). (a) (i (	Sea. Ocean topography. ii) Give two types of oceanic islands. (b)(i) State three conditions facilitating the formation of a cliff.	(2mks) (2mks) (2mks) (3mks)	
( (c)	<ul> <li>(ii) Describe the following processes involved in marine erosion</li> <li>□ Abrasion</li> <li>□ Corrosion</li> <li>(i) Describe how a bay bar is formed.</li> </ul>	(3mks) (2mks) (5mks)	
	<ul> <li>(ii) Explain the significance of oceans under the following sub-headings;</li> <li>Educational research.</li> <li>Fishing.</li> <li>Climate.</li> </ul>	(2mks) (2mks) (2mks)	
10.(a) (b (c	<ul> <li>(i) Define the term soil.</li> <li>(ii) Give two factors that contribute to soil leaching.</li> <li>(i) Identify three characteristics of loamy soils.</li> <li>(ii) Explain how living organisms influence the formation of soil.</li> <li>(i) What is soil conservation?</li> </ul>	(2mks) (2mks) (3mks) (6mks) (2mks)	
(d) St	<ul> <li>(ii) Describe how the following farming methods conserve soil in Kenya. Mulching. Fallowing.</li> <li>udents from Menara boys are to carry out field study on soil around their school.</li> </ul>	(2mks) (2mks)	
	<ul><li>(i) State three objectives for their study.</li><li>(ii) Give three methods of data collection they would have used during the study.</li></ul>	(3mks) (3mks)	

## Kenya Certificate of Secondary Education

## **KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025**

Name	Admission number
Candidate's Signature	Date

## **ASUMBI GIRLS HIGH SCHOOL**

## 312/1 GEOGRAPHY PAPER 1 TIME: 2<sup>1</sup>/<sub>2</sub> hours <u>Instructions to Candidates</u>

a) Answer all questions in section A.

- b) In section **B**, Answer question **6** and any other **two** questions from the remaining questions.
- *c)* Answer all questions using the answer booklet provided.
- *d*) Candidate should check that all pages are printed and no questions are missing.

## For Examination use only.

	Maximum Score	Candidate Score
Section A.	25	
Question 6	25	
Question 7	25	
Question 8	25	
Question 9	25	
Question 10	25	
TOTAL	100%	

#### CONTACT US ON 0724351706/0726960003

FOR MORE PAPERS FOR ALL SUBJECTS AND MARKING SCHEMES

#### SECTION A.

2.

1. a) Define the following terms.

i) Geography	(1mk)
ii) Habitat	(1mk)
b) Give <b>three</b> branches of geography.	(3mks)
a) Name <b><u>two</u></b> elements of weather that can be recorded at a school station.	(2mks)
b) Give <u>three</u> reasons why the recording of data at a school station may be ina	ccurate.

(3mks)

- 3. a) What is a hydrological cycle(2mks)b) State three factors that influence the amount of surface run-off.(3mks)
- 4. Use the diagram below to answer questions that follow.

![](_page_46_Picture_5.jpeg)

i) What type of eclipse is represented by the diagram?	(1mk)
ii) Name the parts marked P and Q	(2mks)
iii) what is the effect of the international date line on crossing the line?	(2mks)

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

![](_page_46_Figure_8.jpeg)

- a) Name the vegetation zones marked W, X, & Y.
- b) Give *two* reasons why mountains tops have no vegetation

#### **SECTION B:ANSWER QUESTION SIX AND ANY OTHER TWO QUESTIONS .(75MKS)**

- 6. Study the map of Mumias (Sheet No. 101/2) provided and answer the following questions.
- a) i. Give the length of the linear scale shown on the map (Give your answer in km). (2 marks)ii. What is the longitudinal extend of the area covered by the map. (2 marks)

	iii What is the latitudinal extend of the area covered by the map.	(2 marks)	
	iv What is the latitude and longitude of the South East corner of the map?	(2 marks)	
b)	Calculate the area of the planted forest at Kapchemutwa. Give your answer	in	
	square kilometres.	(2 marks)	
c)	Describe the relief of the area covered by the map.	(5 marks)	
d)	i.What is the altitude of the highest point?	(1 mark)	
	ii.What is the altitude of the lowest point?	(1 mark)	
e)	i.What is the contour interval of the map?	(1 mark)	
i	i.What is the magnetic variation of the map?	(2 marks)	
i	ii.What is the magnetic declination of the map as at 1980?	(2 marks)	
f)	Name three methods of representing relief used in the map.	(2 marks)	
7.	a) i) Define the term folding		(2mk)
	ii) State <i>three</i> factors that influence folding.		(3mks)
	b)i)Briefly describe the continental drift theory.		(5mks)
	ii) State $\underline{2}$ evidences supporting the above theory of continental drift		(2mks)
	c)i) Using a well labelled diagram, explain how conventional current	ts theory may	lead to
	formation of Fold Mountains.		(6mks)
	ii) Highlight the signifance of Fold Mountains to human activities.		(5mks)
	iii) Give <i>two</i> theories that explain the formation of Fold Mountains a	part from con	vectional
	currents theory.		(2mk
	8. a) Define the following terms		
	i)Glaciation		(1mk)
	ii) Ice-berg		(1mk)
	b) Give <i>two</i> reasons why there are no ice sheets in Kenya		(2mks)

- b) Give *two* reasons why there are no ice sheets in Kenya
- c) The diagram below shows a glaciated landscape use it to answer questions that follow.

![](_page_47_Picture_3.jpeg)

i) Identify the feature labelled <b>M</b> and <b>N</b>	(2mks)
ii) Name <i>two</i> process through which N is formed.	(2mks)
iii) Describe how feature marked N is formed.	(5mks)

- d) i) Name *two* types of moraines.(3mks)ii) Explain *two* factors that determine the speed of ice movement.(4mks)e) Students from a school near Mt. Kenya were planning to carry out afield study of the<br/>glaciated features on top of the mountain.(2mks)i) State *two* reasons why they needed a route map.(2mks)ii) Give three challenges they would likely face during their field study. (3mks)(1mk)ii) Give *three* sources of underground water.(3mks)iii) Give *three* sources of underground water.(3mks)iii) Explain <u>3</u> factors that influence the occurrence of underground water.(6mks)
  - b) The diagram below shows an artesian well.

![](_page_48_Picture_2.jpeg)

	i) Name the parts marked X and Y.	(2mks)
	ii) State <i>four</i> conditions necessary for the formation of artesian wells.	(4mks)
	iii) Explain <i>two</i> significance of underground water to human activities.	(4mks)
	c) You intend to carry out a field study in a Karst landscape.	
	i) Give <i>two</i> reasons why it is necessary to carry out a pre-visit before the study.	(2mks)
	ii) Give <u>three</u> follow –up activities that you were engaged in after the actual study	v.(3mks)
10.	a) i) Name <u>three</u> factors that influence the formation of soil.	(3mks)
	ii)Name three processes of soil formation.	(3mks)
	b) Apart from texture, name other properties of soil.	(3mks)
	c) i) What is soil degeneration?	(2mks)
	ii) Explain <u>three</u> ways in which farming practices may lead to loss of soil fertility.	.(6mks)
	iii) State how soil acidity is reduced.	(2mks)
	d) i) Draw a simple – labelled diagram of profile of a mature soil.	(4mks)
	ii) Distinguish between soil profile and soil catena.	(2mks)

## Kenya Certificate of Secondary Education KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

 Name
 Admission number

 Candidate's Signature
 Date

## STAREHE BOYS CENTER SCHOOL

## 312/1 GEOGRAPHY PAPER 1 TIME: 2<sup>1</sup>/<sub>2</sub> hours <u>Instructions to Candidates</u>

a) Answer all questions in section A.

- b) In section **B**, Answer question **6** and any other **two** questions from the remaining questions.
- *c)* Answer all questions using the answer booklet provided.
- d) Candidate should check that all pages are printed and no questions are missing.

## For Examination use only.

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Section A.	25	
Question 6	25	
Question 7	25	
Question 8	25	
Question 9	25	
Question 10	25	
TOTAL	100%	

CONTACT US ON 0724351706/0726960003

FOR MORE PAPERS FOR ALL SUBJECTS AND MARKING SCHEMES

#### SECTION A: Answer all questions in this section

- 1. a) State two sub- branches of physical geography.(2 mks)b) Give three reasons as to why it is important to study Geography.(3 mks)
- 2. a) Differentiate between seismic focus and epicenter.
  b) Give three causes of earthquakes.
  3. a) Name two major types of vegetation zones in the world.
  (2 mks)
  (3 mks)
  (2 mks)
  - b) State three characteristics of coniferous forest. (3 mks)
- 4. a) The diagram below shows a water cycle. Use it to answer the question that follow.

![](_page_50_Picture_5.jpeg)

i. Name the processes labelled. (3 mks) A\_\_\_\_\_\_ B\_\_\_\_\_ C\_\_\_\_\_

(2 mks)

ii. State two factors influencing the amount of surface run-off. (2 mks)

5. a) What is a lake?

b) Give three reasons why some lakes in the Kenyan Rift valley are salty. (3 mks)

#### **SECTION B**

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

- 6. Study the map of Mumias (Sheet No. 101/2) provided and answer the following questions.
  - a) Name two methods of representing relief used in the map. (2 marks)
  - b) Citing evidence from the map, explain three factors that may have influenced agricultural activities in the area. (3 marks)
  - c) Identify four problems that would be encountered in construction of a road in the south western part of the map. (2 marks)
  - d) i.Describe drainage of the area covered by the map. (3 marks)
    ii.Name two drainage patterns found in the area covered by the map. (2 marks)
    e) i.Describe the characteristics of the long profile of River Kerio. (2 marks)
    ii.Give the general direction of flow of river Kerio. (2 marks)
    iii.Describe the distribution of natural vegetation in the area covered by the map. (4marks)
  - iv.Name three types of vegetation found in the area West of Easting 88. (3 marks)
  - f) Describe the distribution of settlements in the area covered by the map. (2marks)

7. a)i) Differentiate between a rock and a mineral.	(2 mks)
ii) Describe the following characteristics of minerals.	
a) Colour	(1 mk)
b) Hardness	(2 mks)
b)i) What are igneous rocks.	(2 mks)
ii) State three notable differences between plutonic and volcanic roc	ks. (3 mks)
c)Describe the formation of the following rocks.	
i. Mechanically formed sedimentary rocks. (3	s mks)
ii. Chemically formed sedimentary rocks. (3	s mks)

d(i) Identify the missing type of rocks.

(3 mks) **Original rock** Metamorphic rock Limestone (i) Graphite (ii) Granite (iii)

ii) Supposing you were to carry out a field study on rocks at the Kenyan Coast.

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

8. a)i) Differentiate between orogeny and orogenesis.	(2 mks)
ii) State three factors that influence folding.	(3 mks)
b)i) Apart from Recumbent fold name three types of folds.	(3 mks)
ii) With the aid of a well labeled diagrams describe how a recumb	ent fold is formed
	(6 mks)
c)Name three features formed by folding.	(3 mks)
d) Explain four positive effects of folding to human activities.	(8 mks)
9. a) i) State three sources of ocean salts.	(3 mks)
ii) Name two types of tides.	(2 mks)
b)With the aid of a well labeled diagrams describe how a stack is formed.	(8 mks)
c)i) Name two types of submerged highland coasts.	(2 mks)
ii) State two factors influencing deposition by ocean waves.	(2 mks)
d)Explain four significance of oceans to human activities.	(8 mks)
10. a)i) Differentiate between soil profile and soil catena.	(2 mks)
ii) Draw a well labeled diagram of a mature soil profile.	(5 mks)
b)i) Other than topography name three factors that influence form	ation of soil.
	(3 mks)
ii) Explain how topography influence formation of soil.	(3 mks)
iii) List three characteristics of desert soils.	(3 mks)
c(i) Give three types of soil erosion.	(3 mks)
ii) Explain three effects of soil erosion on human activities.	(6 mks)

## Kenya Certificate of Secondary Education KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

Name	Admission number
Candidate's Signature	Date

## **KENYA HIGH SCHOOL**

## 312/1 GEOGRAPHY PAPER 1 TIME: 2<sup>1</sup>/2 hours <u>Instructions to Candidates</u>

a) Answer all questions in section A.

- b) In section **B**, Answer question **6** and any other **two** questions from the remaining questions.
- *c)* Answer all questions using the answer booklet provided.
- *d*) Candidate should check that all pages are printed and no questions are missing.

#### For Examination use only.

	Maximum Score	Candidate Score
Section A.	25	
Question 6	25	
Question 7	25	
Question 8	25	
Question 9	25	
Question 10	25	
TOTAL	100%	

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#### <u>SECTION A</u> 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).

![](_page_53_Figure_3.jpeg)

- (a) Name the parts of the earth's surface marked J and K.
  (b) Giver two reasons why the intensity of the insolation is higher at M than at N.
  (c) When the intensity of the insolation is higher at M than at N.
- 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.

![](_page_53_Picture_7.jpeg)

(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)

![](_page_54_Figure_0.jpeg)

(a). Name the three ways labelled E,F and G.(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 Mumias (Shee	et No. 101/2) provided and answer the following quantum $\frac{1}{2}$	estions.
a)	1. What is the title of the map pro	vided? (sheet title)	(1  mark)
• •	11. What information is contained	d on the sheet title?	(2 marks)
b)	Give two ways of identifying the	map provided.	(2 marks)
c) i. Citing evidence from the map, give three economic activities carried out in the area covered by			overed by the
	map.		(3 marks)
	ii. Citing evidence from the map	, identify three social services in the area covered by	the map.
			(3 marks)
	iii. Citing evidence from the map,	explain three factors favouring livestock production.	(2 marks)
	iv. Citing evidence from the map,	explain three factors that may have influenced	
	agricultural activities in the ar	rea.	(2 marks)
	v. Citing evidence from the map, e	explain two factors favouring trading in the area cover	ed by the map. (2 marks)
d)	Identify two problems that would	be encountered in construction of a road in the south	western part of
	the map. (1 mark)		-
e)	i.Draw a rectangle 12cm by 8 cm	to represent the area bound by eastings 89 and 98 an	d northings 69
and 75. On the rectangle mark and name the following: (4marks)		(4marks)	
	i.	River Kerio.	
	ii.	Dry weather road.	
	iii.	Air photo principal 78.	
	iv.	Seasonal swamp.	
	ii. Explain how the following	factors have influenced settlements in the area covere	d by the map.
	i) Tr	ansport.	(1mk)
ii) Vegetation. iii) Relief. (1mk)		(1mk)	
		nk)	
	iv) Dra	ainage.	(1mk)
	f) i. Give evidence that s	how the area covered by the map receives low rainfal	l. (1mk)
	ii. Give evidence that sho	w the area covered by the map receives high rainfall.	(1mk)

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 m	arks)
(d). You are planning to carry out a field study on the rocks within your school	l environment
(i) Give two secondary source of information you would use to prepare for t	he field study.
	(2 marks)
(ii) State why you would need the following items during the field study:	
• A fork jembe	(1 mark)
• A polythene had	(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.

![](_page_55_Picture_3.jpeg)

(a). Name the ranges marked P, Q, R and S.	(4 marks)
(b). (i) Apart from fold mountains, name <b>thre</b> e other features resulting from folding.	(3 marks)
(ii). With the aid of labelled diagrams, describe how fold mountains are formed.	(10 marks)
(c) Explain the significance of fold mountains to human activities	(8 marks)
9. (a) (i) What are tides?	(2 marks)
(ii). Give <b>three</b> causes of ocean currents	(3 marks)
(iii) Name the three ocean currents along the western coast of Africa	(3 marks)
(b). (i) State <b>three</b> 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 for	med.

(8 marks)

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

![](_page_56_Figure_1.jpeg)

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

(c)

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

## Kenya Certificate of Secondary Education KCSE TOP NATIONAL SCHOOLS TRIAL SERIES 2025

Name	Admission number
Candidate's Signature	Date

## **MASENO SCHOOL**

## 312/1 GEOGRAPHY PAPER 1 TIME: 2<sup>1</sup>/2 hours <u>Instructions to Candidates</u>

a) Answer all questions in section A.

- b) In section **B**, Answer question **6** and any other **two** questions from the remaining questions.
- *c)* Answer all questions using the answer booklet provided.
- d) Candidate should check that all pages are printed and no questions are missing.

#### For Examination use only.

	Maximum Score	Candidate Score
Section A.	25	
Question 6	25	
Question 7	25	
Question 8	25	
Question 9	25	
Question 10	25	
TOTAL	100%	

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#### SECTION A

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

- (a) Name two heavenly bodies that form part of solar system.
   (b) State three characteristics of planets.
- 2. The diagram below shows six's thermometer. Use it to answer question (a).

![](_page_58_Figure_4.jpeg)

	(a) Identify the parts labeled <b>A</b> , <b>B</b> and <b>C</b> .		(3 marks)
	(b) State <b>two</b> ways through which latitude influence the temperature of a pla	ace.	(2 marks)
3.	(a) Give <b>two</b> types of magma.		(2 marks)
	(b) Name <b>three</b> lava plateaus found in Kenya.		(3 marks)
4.	(a) Identify <b>two</b> lakes formed through erosion process.		(2 marks)
	(b) Give <b>three</b> reasons why some lakes are salty.		(3 marks)
5.	(a) What is weathering?		(2 marks)
	(b) State <b>three</b> ways through which living organisms cause weathering. <b>SECTION B</b>		(3 marks)
	Answer <b>question 6</b> and any other <b>two</b> questions from this sec	tion	
6.	Study the map of Mumias (Sheet No. 101/2) provided and answer the fo	llowing ques	stions.
	a) i. Using a vertical scale of 1cm to represent 40 metres, draw a cross- sec 830650 to 910650.	tion from grid	d reference
	On the cross-section, mark and name;		
	a) Dry weather road.		
	b) Gentle slope.		
	c) Seasonal swamp		
	d) River Kerio	(8 marks)	
	ii Calculate the vertical evaggeration of the cross section	(2 marks)	
	iii Determine the intervisibility of the starting and ording points of the draw		
	in. Determine the intervisionity of the starting and ending points of the draw	/11 (2	
	Cross-section.	(2  IIIaIKS)	
	1V. Draw a straight line from forok waterfall in grid square 7958 to Chief's c	office in grid s	square
	8260. Calculate the gradient of the two points.	(3 marks)	
	<b>b</b> ) Describe the relief of the area covered by the map.	(5 marks)	
	c) Name three types of vegetation found in the area West of Easting 88.	(3 marks)	
	d) Describe the distribution of settlements in the area covered by the map.	(2marks)	
7.	(a) (i) Define the term folding.		(2 marks)
	(ii) A part from fold mountains, give three other features formed through	h folding.	(3 marks)
	(a) The map below shows the distribution of fold mountains in the world.		

![](_page_59_Picture_0.jpeg)

	(i) Name the mountains marked <b>D</b> and <b>E</b> .	(2 marks)
	(ii) Identify the orogenies the mountains marked $\mathbf{F}$ and $\mathbf{G}$ were formed.	(2 marks)
	(c) With the aid of well labeled diagrams, describe the formation of the following types	of folds.
	(i) Asymmetrical folds.	(4 marks)
	(ii) Overfolds.	(4 marks)
	(d) Explain <b>four</b> positive influence of folding to human activities.	(8 marks)
8.	(a) What is derived vegetation?	(2 marks)
	(b) Explain how the following factors influence the distribution of vegetation.	
	(i) Winds	(4 marks)
	(ii) Rainfall	(4 marks)
	(c) (i) A part from forests, give <b>two</b> other major vegetation types of the world.	(2 marks)
	(ii) Describe the characteristics of tropical rainforests.	(6 marks)
	(d) Your class is planning to carry out a field study on vegetation around the school.	
	(i) Give <b>three</b> sources of information you are likely to use before the study.	(3 marks)
	(ii) Identify <b>four</b> challenges you are likely to encounter during the study.	(4 marks)
9.	(a) Differentiate between a river confluence and interfluve.	(2 marks)
	(b) Explain <b>three</b> types of river erosion.	(6 marks)
	(c) (i) A part from waterfalls, give <b>three</b> other features of river erosion.	(3 marks)
	(ii) State <b>four</b> ways through which waterfalls may be formed.	(4 marks)
	(d) Describe how the following features are formed.	
	(i) Flood plain	(5 marks)
	(ii) Arcuate delta	(5 marks)
10.	(a) Give <b>four</b> components of the soil.	(4 marks)
	(b) Explain how the following factors influence soil formation.	
	(i) Living organisms	(4 marks)
	(ii) Relief	(4 marks)
	(c) Explain <b>four</b> causes of soil erosion.	(8 marks)
	(d) State <b>five</b> significance of soils.	(5 marks)