KENYA CERTIFICATE OF BASIC EDUCATION (K.C.B.E)

GRADE 10 GEOGRAPHY (Theory) ENDTERM 1

PATHWAY: S.T.E.M, SOCIAL SCIENCE, ARTS AND SPORT

ENDTERM ASSESSMENT Time: 2 Hours

COMPETENCY BASED EDUCATION

LEARNER'S DETAILS

Name: _____

School: _____

Assessment Number: _____. **Date:** _____.

School Code: _____. **Signature**: _____.

INSTRUCTIONS TO LEARNERS

1. Write your name, School, assessment number, signature and date on all the answer sheets provided.
2. Answer all the questions in the spaces provided.
3. **Read each question carefully** before writing your answer.
4. Ensure your answers are **clear, neat, and well-organized**.
5. The **marks for each question** are indicated at the end of the question.
6. Manage your time well to complete all questions.

Performance Levels Grid

Question No.	1	2	3	4	5	6	TOTAL
Marks	8	11	13	12	15	21	80
Learner's Score							
Performance Level							

Level	Level	% Range	Points	Learner's score
Exceeding (EE)	EE1	90–100%	8	
	EE2	75–89%	7	
Meeting (ME)	ME1	58–74%	6	
	ME2	41–57%	5	
Approaching (AE)	AE1	31–40%	4	
	AE2	21–30%	3	
Below (BE)	BE1	11–20%	2	
	BE2	1–10%	1	

-GEOGRAPHY-
-003-
-Senior S

SECTION A: THEORY (80 Marks)

Answer all questions in this section.

1. A group of Grade 10 learners visited a nearby town to study land use, transport and human activities in the area. The photograph below shows some of the activities observed in the town, including a farming area, a road network, a market and a river.



a) Define Geography. (2 marks)

_____

_____

b) State TWO main branches of Geography. (2 marks)

i. _____.

ii. _____.

c) Identify ONE activity shown in Figure 1 that relates to Physical Geography. (1 mark)

_____

_____

d) Identify ONE activity shown in Figure 1 that relates to Human Geography. (1 mark)

_____

e) Explain TWO ways in which studying Geography can promote sustainable development in the area studied. (2 marks)

i. _____.

ii. _____.

2. During a school career day, a resource person from the Kenya Meteorological Department gave a talk to learners on careers related to Geography.



a) Name the branch of Geography that deals with the study of weather and climate. (1 mark)

_____.

b) State TWO careers related to Geography. (2 marks)

i. _____.

ii. _____.

c) Give TWO factors a learner should consider when choosing a Geography-related career. (2 marks)

i. _____.

ii. _____.

d) Explain TWO ways in which Geography is related to Environmental Science. (2 marks)

i. _____.

ii. _____.

e) State TWO importance of Geography in day-to-day life. (2 marks)

i. _____.

ii. _____.

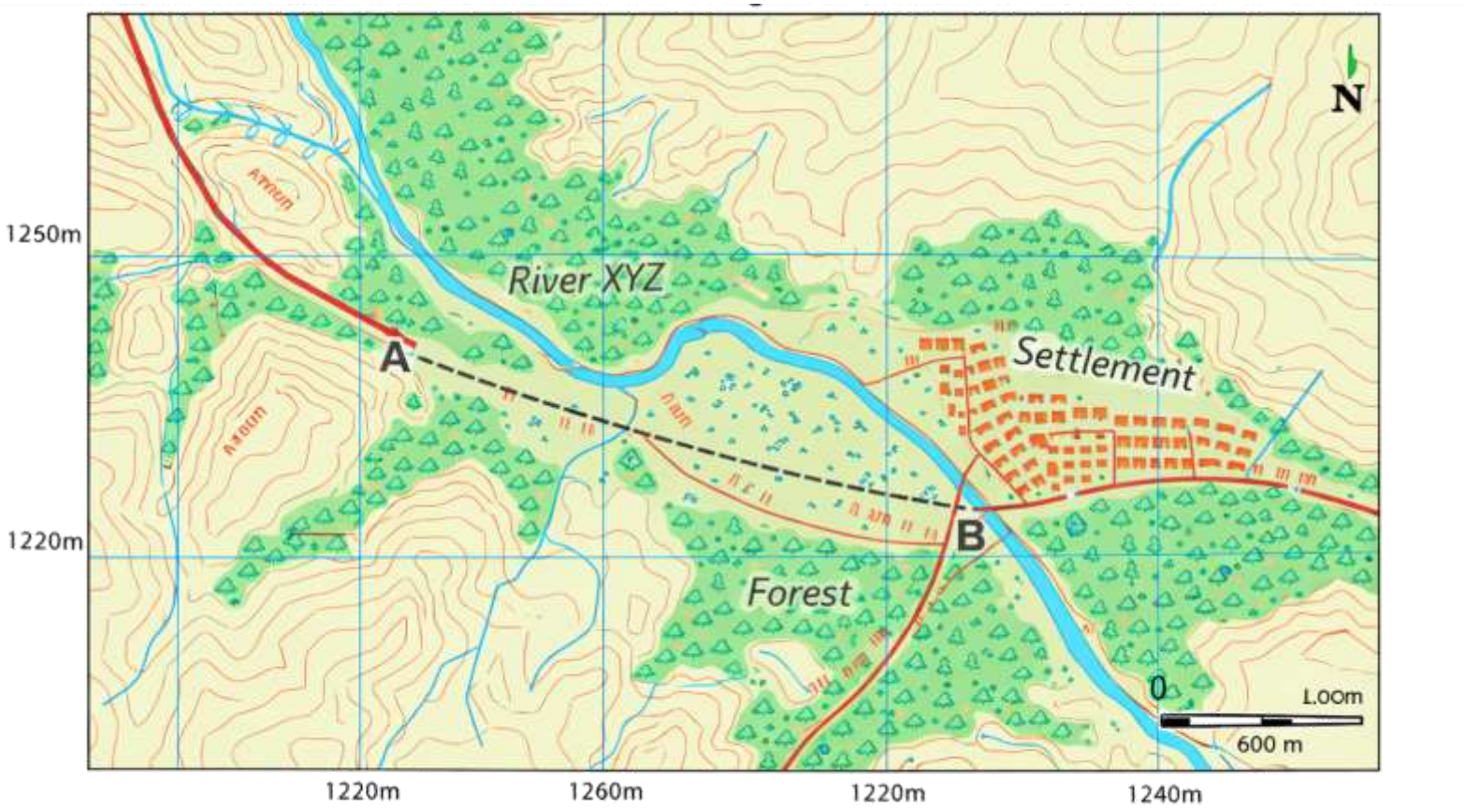
f) Identify the instrument labelled M ,N and P. (3 marks)

M: _____. N: _____. P: _____.

SECTION B: (30 MARKS)

3. Below is an extract of a topographical map of area PQR showing contours, a river, forested areas and a settlement.

AREA PQR



a) Identify the method used to represent relief in the map above. (1 mark)

_____

b) State TWO other methods used to represent relief on maps. (2 marks)

i. _____.

ii. _____.

c) Using the map above, describe the drainage pattern of the area. (3 marks)

i. _____.

ii. _____.

iii. _____.

d) Identify TWO economic activities suggested by the vegetation shown on the map. (2 marks)

i. _____.

ii. _____.

e) Draw a simple sketch section along line AB shown in Figure 3. (marks)

f) State THREE ways in which map reading skills contribute to national development. (3 marks)

i. _____.

ii. _____.

iii. _____.

4. Learners collected data on monthly rainfall recorded at the school weather station for one year.

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rainfall (mm)	45	55	120	210	180	95	70	85	110	160	190	75

a) State ONE importance of statistics in Geography. (2 marks)

_____

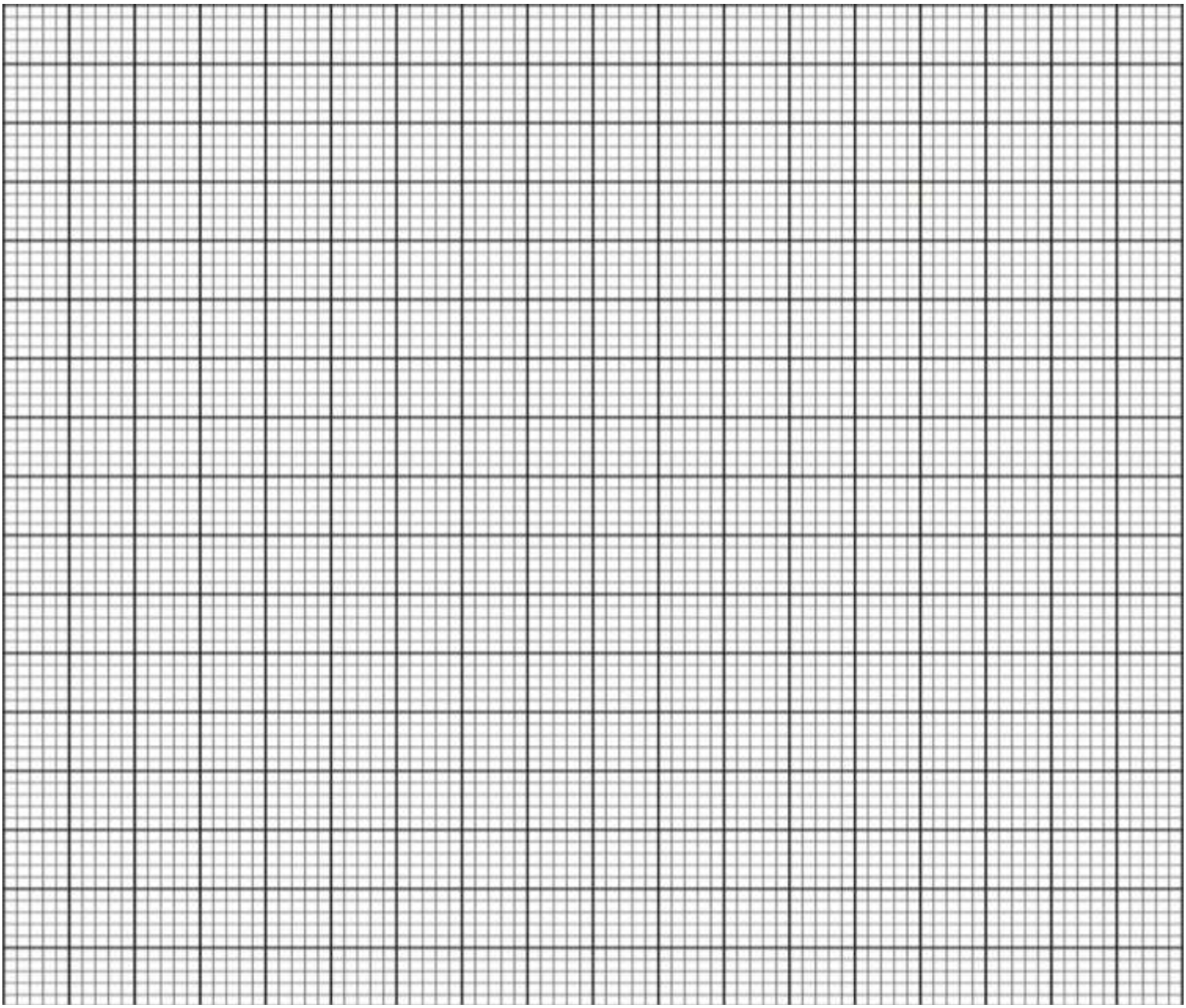
_____

b) Calculate the mean monthly rainfall for the year. (2 marks)

c) Name the method of data collection used in this study. (1 mark)

_____.

d) Draw a bar graph to represent the rainfall data. (5 marks)



e) State TWO limitations of using statistics to explain geographical facts. (2 marks)

i. _____.

ii. _____.

5. The figure below shows a digital map displayed on a computer screen.



a) Define Geographic Information System (GIS). (2 marks)

_____

_____

b) Distinguish between GIS and Global Positioning System (GPS). (4 marks)

_____

_____

_____

_____

c) Name THREE components of GIS. (3 marks)

i) _____.

ii) _____.

iii) _____.

d) State THREE uses of GIS in geographical studies. (3 marks)

i)

ii) _____.

iii) _____.

e) Give THREE ways in which GIS is useful in day-to-day life. (3 marks)

i) _____.

ii) _____.

iii) _____.

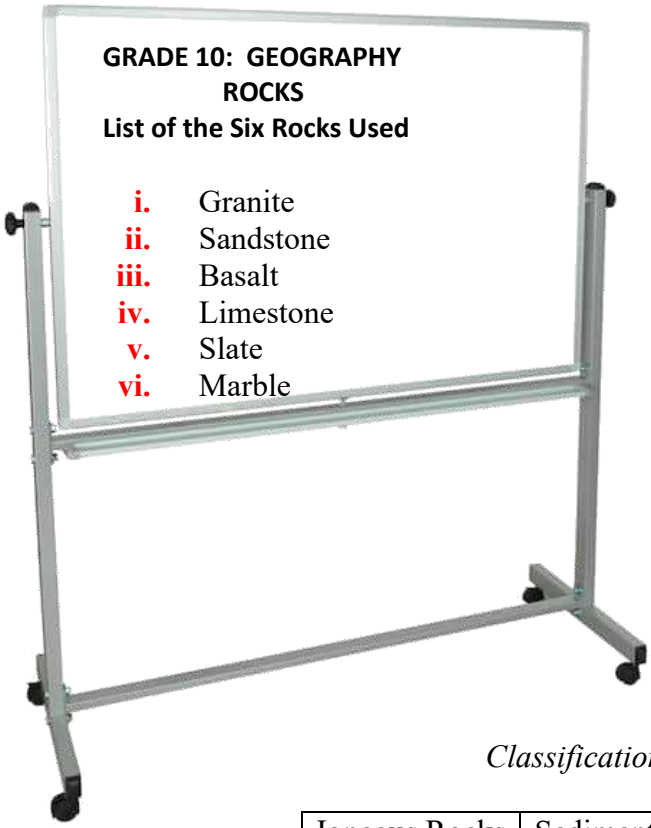
6. Figure 5 shows samples of igneous, sedimentary and metamorphic rocks.

a) Define a rock. (2 marks)

_____

_____

b) Mr.Mwangi displayed the following examples of rocks on a white board. Classify the rocks according to their mode of formation.



Classification of Rocks(6 marks)

Igneous Rocks	Sedimentary Rocks	Metamorphic Rocks

c) Describe ONE characteristic of intrusive igneous rocks. (1 mark)

_____

_____

d) Name TWO areas in Kenya where igneous rocks are found. (2 marks)

i) _____.

ii) _____.

e) Identify the type of rocks shown below. (3 marks)

i.  _____.

ii.  _____.

iii.  _____.

e) State TWO significance of rocks in Kenya. (2 marks)

i) _____.

ii) _____.

f) State TWO methods used to study rocks in the local environment. (2 marks)

i) _____.

ii) _____.

THE 47 COUNTIES C1 SCHOOLS' JOINT NATIONAL SBA ASSESSEMENT

KENYA CERTIFICATE OF BASIC EDUCATION

SENIOR SCHOOL ASSESSMENT

TERM 2 MIDTERM ASSESSMENTS 2026

GRADE 10 – GEOGRAPHY

Time: 2 Hours 30 Minutes

LEARNER'S DETAILS

Name: _____. **School:** _____.

Assessment Number: _____. **Date:** _____.

School Code: _____. **Signature:** _____.

INSTRUCTIONS TO CANDIDATES

1. Write your name in the spaces provided above.
2. Write the name of your school and your stream in the spaces provided.
3. Write your admission number and the date of the assessment in the spaces provided.
4. This paper consists of two sections: A and B.
5. Answer all questions in section A and section B.
6. Answer the questions in English.
7. All answers MUST be written in the spaces provided in PAPER.
8. Do NOT remove any page from this question paper.

FOR OFFICIAL USE ONLY (EXAMINER'S USE)

SECTION	SECTION A	SECTION B	% SCORE	EE1	EE2	ME1	ME2	AE1	AE2	BE1	BE2
SCORE RANGE	45 MARKS	35 MARKS		90-100	75-89	58-74	41-57	31-40	21-30	11-20	1-10
POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A (45 MARKS)

Answer ALL questions in this section.

1. **Mary, a learner at Karima Girls Senior School, placed various features in her digital portfolio as shown below.**



Image T:



Image V:

(a) Identify the branch of Geography represented by Image T. _____(1 mark)

(b) Identify the branch of Geography represented by Image V._____ (1 mark)

(c) State **three reasons** why the study Geography is important. (3 marks)

i. _____.
ii. _____.
iii. _____.

2. **Your Geography teacher, Mr. Mwangi, brought the following GPS equipment to class.**



Q



R

(a) Name the equipment labeled Q and R. (2 marks)

Q: _____.

R: _____.

(b) Identify the **two main components** of a Geographic Information System (GIS). (2 marks)

i. _____.
ii. _____.

(c) Convert the following decimal degree coordinate into Degrees, Minutes, and Seconds (DMS): (2 marks)

34.5° ***(Show your working)***

3. Study the map of Meru (1:50000 sheet 108/3) provided and answer the following questions.

(a) (i) What is the height of Njorivola hill at grid square 4117. (1 mark)

_____

_____

(ii) Find the bearing of the forest guard post in grid square 3800 from the water tower in grid square 4500. (2 marks)

_____

_____

(iii) Calculate the area of forest cover bound by eastings 34 and 40 and northing 01 and 06. Give your answer in square kilometres. (2 marks)

_____

_____

_____

_____

(b)

(i) Draw a rectangle measuring 16cm by 12cm to represent the area bound by easting 39 and 43 and northing 00 and 03. (1 mark)

(ii)On the rectangle, mark and label:

- ✓ Mount Kenya forest (1 mark)
- ✓ Dry weather road (1 mark)
- ✓ Githongo market (1 mark)

(iii)Calculate the scale of the new map. (1 mark)

_____

_____

(c) Citing evidence from the map, explain:

(i) Two factors that favour trading in the area covered by the map. (2 marks)

i. _____

ii. _____

(ii) two human factors influencing agricultural activities in the area covered by the map. (2 marks)

(d) Apart from cattle dip, identify three other man-made features in grid reference 3615. (2 marks)

i. _____
ii. _____

(e) Describe the relief of the area covered by the map. (2 marks)

i. _____
ii. _____

4. During a field study in the Great Rift Valley, students observe different rock formations and learn how rocks are formed, classified, and identified based on their characteristics.

(a) Identify the type of rock formed through the cooling and solidification of magma. (1 mark)

_____.

(b) Give **one example** of a Sedimentary rock found in the Kenyan Rift Valley. (1 mark)

_____.

(c) Match the rock type to its characteristic: (3 marks)

Rock Type	Characteristic
Igneous	A. Contains fossils and occurs in layers
Sedimentary	B. Formed from pre-existing rocks under high heat/pressure
Metamorphic	C. Hard, crystalline, and lacks layers

5. A weather station in Eldoret Town recorded rainfall and temperature data throughout the year to help farmers plan their agricultural activities.

The table below shows the monthly rainfall (mm) and average temperature (°C) for one year:

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Rainfall (mm)	50	50	120	200	80	40	30	20	60	150	180	70
Temperature (°C)	24	25	24	22	21	20	19	20	22	23	22	24

(a) Calculate the mean annual rainfall. (2 marks)

_____
_____

(c) Identify the median rainfall value. (1 mark)

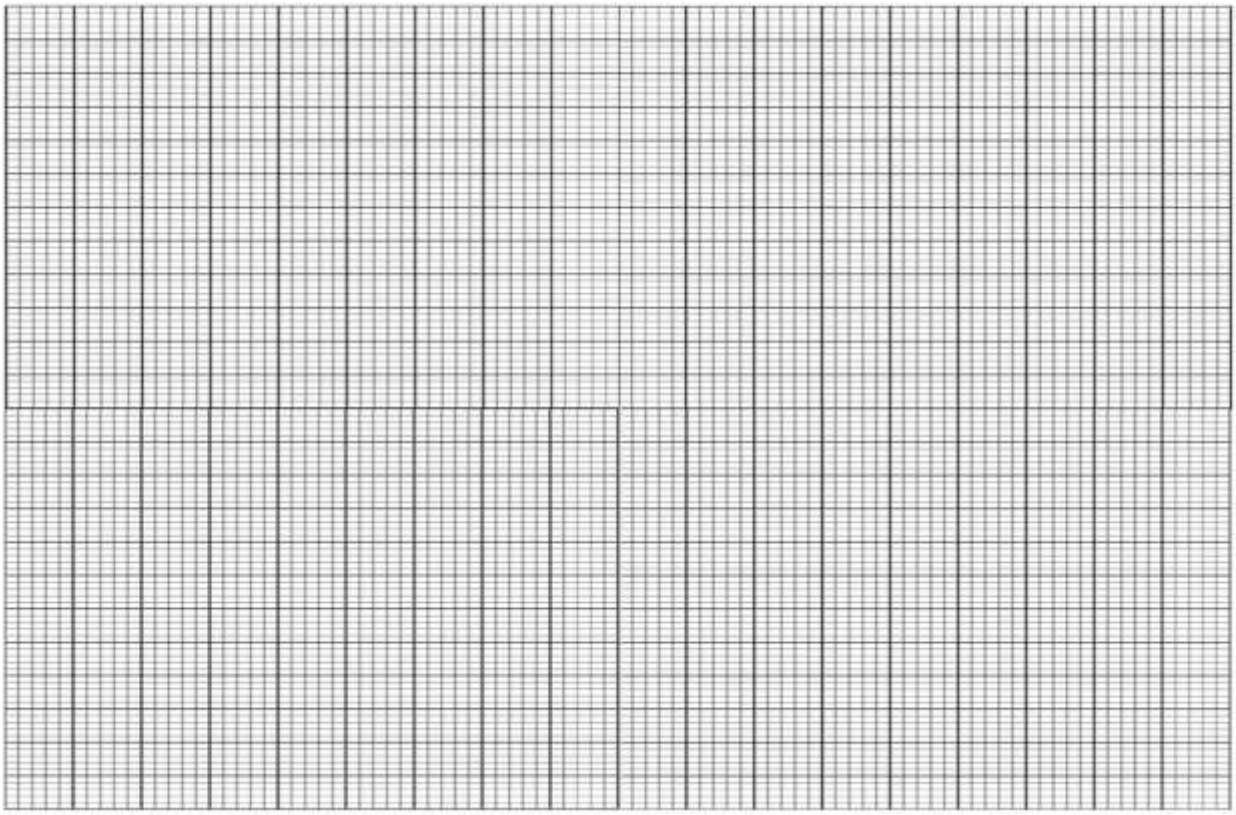
_____

(d) State two limitations of using statistics to explain geographical facts. (2 marks)

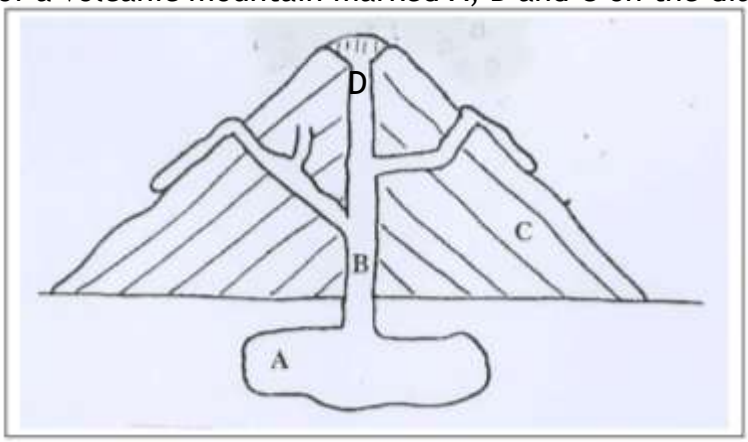
i. _____
ii. _____

(e) Using the data provided above, construct a combined graph to represent: (5 Marks)

- ✓ Rainfall using a Bar Graph
- ✓ Temperature using a Line Graph



You watched a video clip on the formation of volcanic mountains during a Social Studies lesson. Identify parts of a volcanic mountain marked A, B and C on the diagram below.



(a) Name the parts labeled: (4 marks)

i) A: _____

ii) B: _____

iii) C: _____

iv) D: _____

(b) Distinguish between **Vulcanicity** and **Volcanicity**. (2 marks)

_____

_____

_____

_____

(c) Explain **three positive significances** of vulcanicity to the Kenyan economy. (3 marks)

i. _____

ii. _____

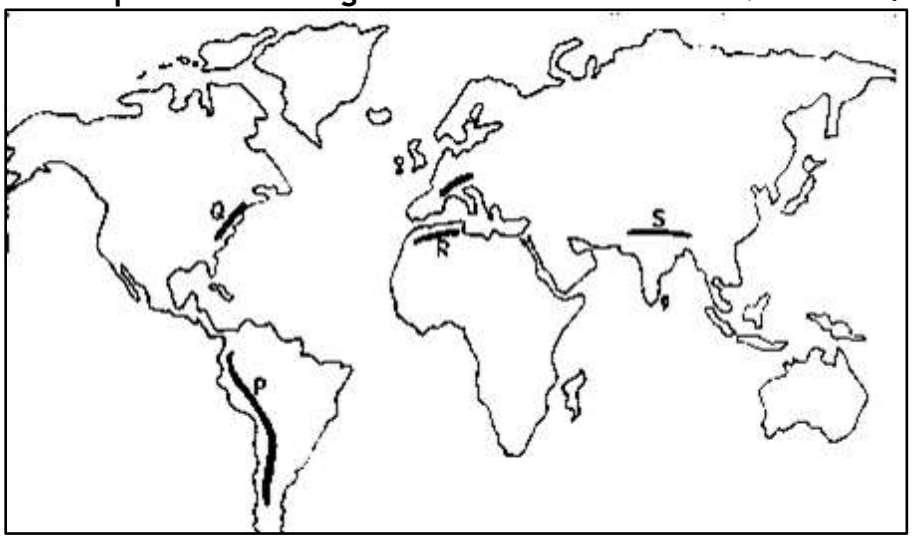
iii. _____

(d) Identify **two negative effects** of volcanic eruptions on the immediate environment. (2 marks)

i. _____

ii. _____

7. The map below shows global distribution of Fold Mountains.



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

P: _____.

Q: _____.

R: _____.

S: _____.

(b) With the aid of a **well-labeled diagram**, describe the formation of a **Syncline and an Anticline**. (5 marks)

(c) Describe **two types of folds** resulting from tectonic compression. (2 marks)

i. _____
ii. _____

(d) How does folding influence the distribution of rainfall in a region? (3 marks)

8. Koech, a Grade 10 learner, is conducting research on the relationship between Geography and Agriculture in his home village.

(a) Name **two methods** Kibet can use to collect primary data in the field. (2 marks)

i. _____.
ii. _____.

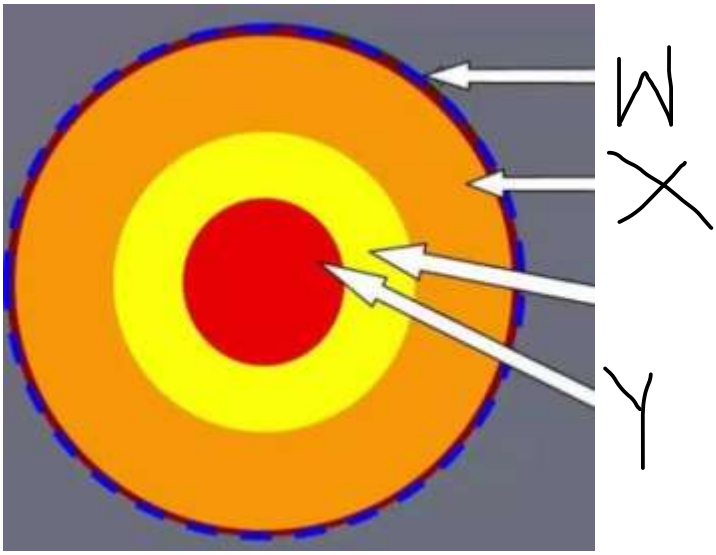
(b) State **two advantages** of using Direct Observation during fieldwork. (2 marks)

i. _____.
ii. _____.

(c) List **three career opportunities** available for learners pursuing Geography. (3 marks)

i. _____.
ii. _____.
iii. _____.

9. The diagram below shows the internal structure of the Earth. Name the parts marked W, X, and Y. (3 marks)



W: _____.

X: _____.

Y: _____.

Geography Department

GRADE 10 INTER C1 SENIOR SCHOOLS END OF YEAR EXAMINATIONS

KENYA CERTIFICATE OF BASIC EDUCATION

SENIOR SCHOOL ASSESSMENT

TERM 3 ENDTERM ASSESSMENTS 2026

GRADE 10 – GEOGRAPHY

Time: 2 Hours

LEARNER'S DETAILS

Name: _____. **School:** _____.

Assessment Number: _____. **Date:** _____.

School Code: _____. **Signature:** _____.

INSTRUCTIONS TO CANDIDATES

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POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)

Answer ALL questions in this section.

1. The table below shows the **value of selected food crops imported into Kenya** between **2021 and 2025**. Study the data carefully and use it to answer the questions that follow. *Values are in KSh million.*

Crop / Year	2021	2022	2023	2024	2025
Unmilled wheat	6,989	7,515	5,577	6,099	6,754

Wheat flour	180	639	237	168	200

(a)

(i) Using a vertical scale of **1 cm to represent KSh 1,000 million**, draw a **comparative bar graph** to represent the data in the table. **(8 marks)**

(b) State **three advantages** of using comparative bar graphs to present statistical data. **(3 marks)**

i. _____

ii. _____

iii. _____

(c) Explain **three reasons why Kenya may produce the commodities shown in the table but still import them. (6 marks)**

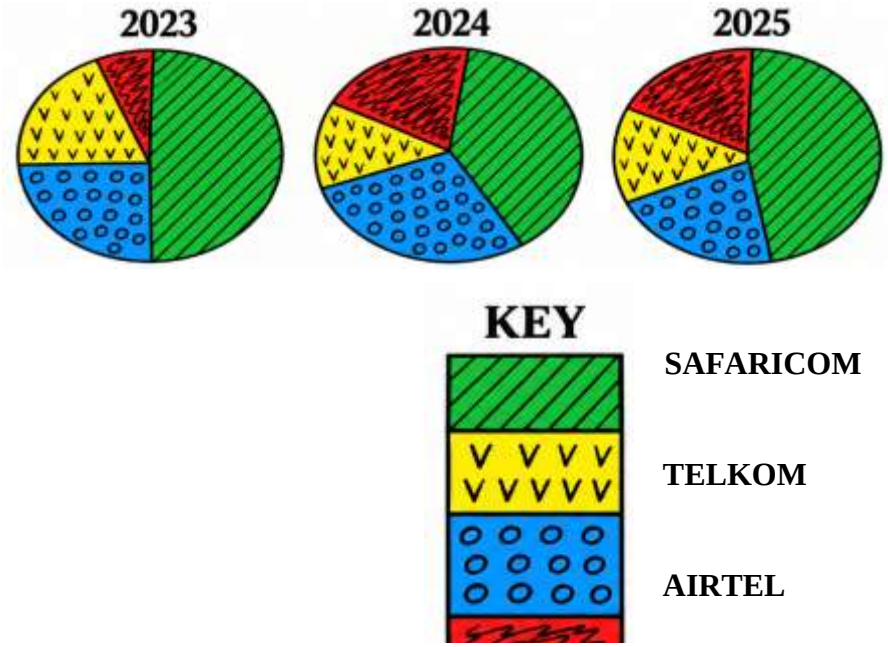
i. _____

ii. _____

iii. _____

2. Study the figure below and use it to answer the questions that follow.

*The figure shows proportional divided circles representing the extent of network coverage in Kenya between **2023 and 2025**.*



(a)

(i) State **four deductions** that can be made from the information presented in the figure. **(4 marks)**

_____

_____

_____

_____

(ii) State **three advantages** of using proportional circles to represent statistical data. **(3 marks)**

_____

_____

_____

3. Study the map of Kipkabus 1:50,000 (Sheet 104/1) provided and answer the following questions.

a)

(i) Name the year of construction of the Kipkabus map. **(1 mark)**

_____

(ii) Name **two types of scales** found on the map. **(2 marks)**

_____

_____

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

_____

b) Identify **three forms of land transport** found in the area covered by the map. **(3 marks)**

_____

_____

_____

_____

c) Measure the distance of the **dry-weather road** from grid reference **867365 to 829420**. Give your answer in **kilometres**. **(2 marks)**

_____

_____

d) (i) Draw a **sketch section** along **Northing 40**, from grid reference **830400 to 900400**.

On the sketch section, mark and name the following:

- **Keiyo Escarpment** — **(1 mark)**
- **River Yathine** — **(1 mark)**
- **Dry-weather road** — **(1 mark)**
- **Lelboinet School** — **(1 mark)**

e)

(i) Describe the **distribution of settlements** in the area covered by the map. **(5 marks)**

_____

_____

_____

(ii) Give **four pieces of evidence** to show that the area covered by the map receives **high rainfall**. **(4 marks)**

_____

_____

_____

_____

SECTION B 50 MARKS

Answer ALL questions in this section.

4. a) What is meant by **Geographical Information System (GIS)**? (1 mark)

_____

_____

b) State **two components of GIS**. (2 marks)

_____

_____

5. Apart from **thermal metamorphism**, name **two other types of metamorphism**. **(2 marks)**

_____

_____

b) Describe the following types of rocks:

(i) Calcareous rocks (2 marks)

(ii) Carbonaceous rocks (2 marks)

_____

_____

(iii) State **three classes of sedimentary rocks based on their mode of formation. (3 marks)**

i. _____

ii. _____

iii. _____

c) Explain how sedimentary rocks **are formed through the following process:**

(i) Mechanical process (3 marks)

_____

_____

_____

_____

(ii) Chemical process (3 marks)

_____

_____

_____

_____

6. (a) State **two forms in which mineral ores occur. (2 marks)**

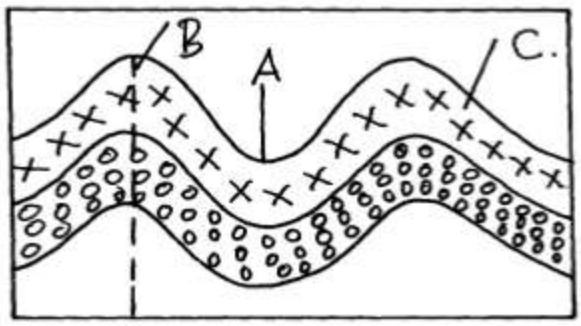
(b) State **three negative effects of open-cast mining on the environment. (3 marks)**

i. _____

ii. _____

iii. _____

7. The diagram below shows a simple fold.



(a)

(i) Name the parts labelled **A, B and C**. **(3 marks)**

A: _____

B: _____

C: _____

(ii) Name **two fold mountains** found outside Africa. **(2 marks)**

i. _____

ii. _____

(iii) Give **three landforms** associated with folded regions. **(3 marks)**

iii. _____

(b) With the aid of a **well-labelled diagram**, describe the process of formation of a **fold mountain**. **(4 marks)**

(c) Explain **four ways** in which folding influences human activities. **(4 marks)**

i. _____

ii. _____

iii. _____

_____

_____

b) Name the instrument used to record earthquake vibrations. (1 mark)



_____

c) Name **one material ejected during a volcanic eruption**. (1 mark)

_____

9. a) State **one physical factor influencing agriculture**. (1 mark)

_____

_____

b) Name **one mineral mined in Kenya**. (1 mark)

_____

c) State **one source of renewable energy used in Kenya**. (1 mark)

_____

10. The table below shows the temperature and rainfall characteristics recorded at a weather station in the Lake

Temperature (°C)	23.6	24.5	23.9	22.8	22.5	22.4	22.5	22.7	23.2	23.2	22.7	22.9
Rainfall (mm)	115	94	190	288	273	109	98	107	113	202	248	189

a) Name **two instruments** that could have been used to collect the weather data presented in the table. **(2 marks)**

i. _____

ii. _____

b) State **three characteristics of the weather** experienced at the station based on the data provided. **(3 marks)**

i. _____

ii. _____

iii. _____