

# **GEOGRAPHY PP1 FINAL GAUGE PREDICTION**

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# GEOGRAPHY PP1 2023 GAUGE PREDICTION

*KENYA CERTIFICATE OF SECONDARY EDUCATION*

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

SCHOOL.....INDEX NO: .....

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

312/1

GEOGRAPHY

PAPER 1

## GAUGE 1 2023 KCSE PREDICTION INSTRUCTIONS TO CANDIDATES

- i) This paper consists of two sections A and B
- ii) Answer **all** questions in section A
- iii) In section B, answer question **6** and any other **two** questions.

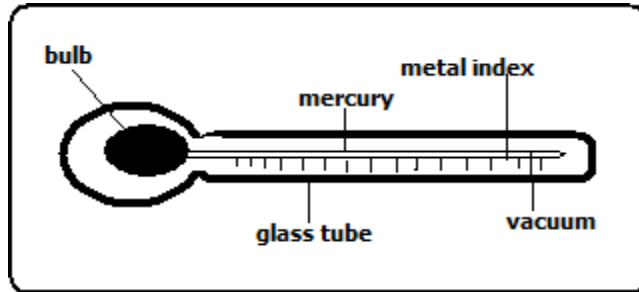
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SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
<b>TOTAL SCORE</b>		<b>100</b>	

### SECTION A

Answer **all** the questions in this section

1. (a) Name two branches of physical geography (2 marks)  
 (b) State three reasons for studying geography (3 marks)
2. The diagram below shows a weather measuring instrument.



- a) Identify the instrument (1 mark)  
 b) Explain how the instrument works (4 marks)
3. a) Name the scale used to measure the:  
 i) intensity of an earthquake  
 ii) magnitude of an earthquake (2 marks)
- b) Give three natural causes of earthquakes (3 marks)
4. a) State two causes of submergence of coasts (2 marks)  
 b) Name three features that form as a result of submergence of coasts (3 marks)
5. (a) Identify two types of lakes formed through erosion process (2 marks)  
 (b) Give three reasons why most rift valley lakes are salty (3 marks)

### SECTION B

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

6. Study the map of Kisumu East 1:50,000 (Sheet 116/2) provided and answer the following questions.
- a) i) What type of map is the Kisumu East map (1 mark)  
 ii) Convert the scale of the map to a statement scale (2 marks)  
 iii) What is the six-figure grid reference of the trigonometrical station 1154 SKP 21 in the southern part of the area covered by the map (2 marks)
- b) i) Measure the length in kilometers of the regional boundary in the North Western part of the map (2 marks)  
 ii) Name two drainage features in the area covered by the map (2 marks)

c) Citing evidence from the map, identify three social services offered in Kisumu Municipality (6 marks)

d) i) Using a vertical scale of 1cm represents 20m, draw a cross section from grid reference 960980 to grid reference 020980 (5 marks)

On the cross-section, mark and label:

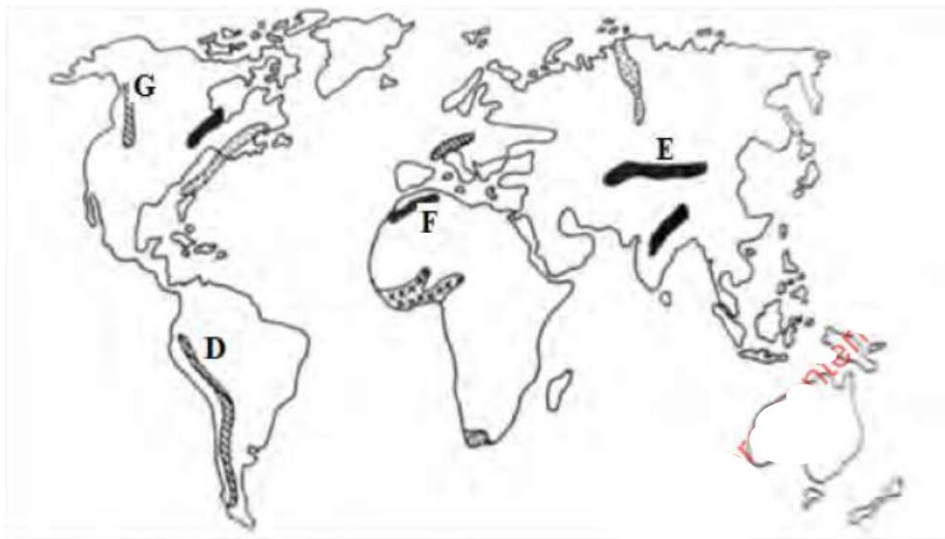
- River Nyang'ori (1 mark)
- Dry weather road (1 mark)
- Steep slope (1 mark)

ii) Calculate the Vertical Exaggeration of the cross section (2 marks)

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

(ii) Apart from fold mountains, name three other features resulting from folding (3 marks)

(b) The map below shows the distribution of fold mountains in the world.



i) Name the mountains marked D and E and F (3 marks)

ii) Identify the orogenies during which the mountains marked F and G were formed (2 marks)

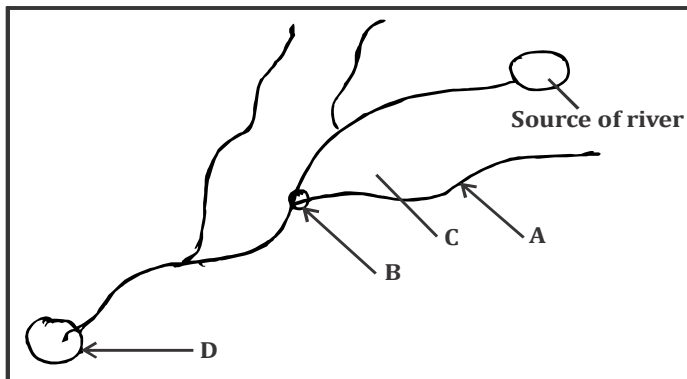
c) i) Apart from a recumbent fold, name **two** other types of folds (2 marks)

ii) Describe how a recumbent fold is formed (4 marks)

iii) Explain two positive influence of folding to human activities (4 marks)

- e) Students in your school are planning to conduct a fieldwork on landforms in your county.
- (i) State two ways in which the students would prepare themselves for the study (2 marks)
  - (ii) State three advantages of studying landforms through field work (3 marks)

8. a) (i) What is a river? (2 marks)
- (ii) Explain two ways through which a river transport its load (4 marks)
- b) i) State three conditions necessary for the formation of a delta (3 marks)
- ii) Give three characteristics of a flood plain (3 marks)
- c. The diagram below shows a drainage system.



- Name the parts marked A, B, C and D (4 marks)
- (d)(i) What is river rejuvenation (2 marks)
- (ii) State three causes of river rejuvenation (3 marks)
  - iii) Name four features resulting from river rejuvenation (4 marks)
9. a) Name three types of desert surfaces (3 marks)
- b) Explain three ways through which the wind carries out erosion in the desert (6 marks)
- c) With the aid of well labeled diagrams, describe how a rock pedestal is formed (6 marks)
- d) State two factors which influence transportation of materials by wind in deserts (2 marks)
- e) Explain four ways through which deserts and desert landforms influence human activities (8 marks)
10. (a)(i) Identify three components of soil (3 marks)
- ii) Describe the formation of soil through decomposition of organic matter (4 marks)
- (b)(i) Give three types of soil structure (3 marks)
- (ii) Name two causes of soil degeneration (2 marks)
- (c) (i) What is derived vegetation (2 marks)
- (ii) Outline three ways in which soil nutrient influence vegetation growth (3 marks)

- (d) You are supposed to carry out a field study on soil within your division
- (i) Give three reasons why you would conduct reconnaissance (3 marks)
  - (ii) Name two of sampling techniques you would use to get soil samples (2 marks)
  - (iii) Name three methods you would use to collect data (3 mark)

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**GEOGRAPHY**

**PAPER 1**

## GAUGE 2 2023 KCSE PREDICTION INSTRUCTIONS TO CANDIDATES

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- ii) Answer **all** questions in section A
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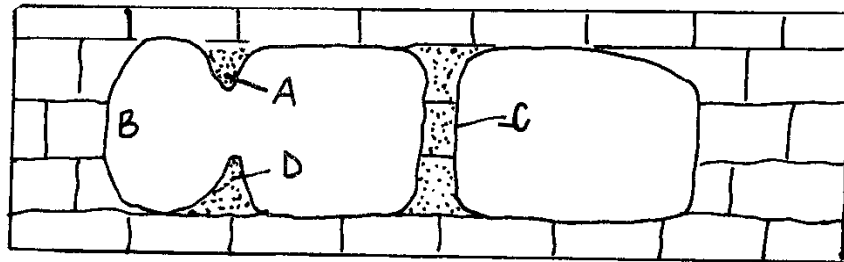
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A	1-5	25	
B	6	25	
		25	
		25	
<b>TOTAL SCORE</b>		<b>100</b>	

**SECTION A : Answer All Questions in this Section**

1. (a) State **three** conditions that favour the development of dew. (3 marks)

- (b) Mention **two** evidences of climatic changes on the physical environment. (2 marks)
2. (a) What is an earthquake? (2 marks)
- (b) Identify **three** regions in the world that are prone to earthquakes. (3 marks)
3. (a) Name the minerals that make up the inner crust. (2 marks)
- (b) Give three evidences that support the theory of continental drift. (3 marks)
4. The diagram below shows underground karst scenery. Use it to answer question (a) and (b)



- (a) Name the features marked A, B and C. (3 marks)
- (b) Describe how feature marked D is formed. (2 marks)
5. (a) State **two** causes of vertical movement of ocean water (2marks)
- (b) Identify **three** features found on the ocean floor (3marks)
- SECTION B: Answer Question Six (COMPULSORY) and any other two**
6. Study the map of Kisumu East ( 1:50,000 sheet 116/2) provided and answer the following questions:
- a. (i) Give the six figure grid reference of the trigonometrical station SKP 14, at Nyando escarpment to the North East (2 marks)
- (ii) Measure the length of the dry weather road C5056 from the junction in grid square 9893 up to the point it crosses northing 99. (2marks)
- (iii) Give the latitudinal extent of the area covered by the map (2marks)
- b. (i) Using a scale of 1cm represents 50m, draw a cross-section from grid reference 960980 to grid reference 030980. (4marks)
- (ii) On the cross-section, mark and name:
- River Nyang'ori (1mark)
  - An Escarpment (1mark)
  - A dry weather road (1mark)



- The lowest area (1mark)

(iii) Calculate the vertical exaggeration (2marks)

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

d. Citing evidence from the map, explain two factors that may have favoured the location of the Miwani Sugar Plantations to the North East. (4marks)

7.a) Differentiate between fissure and vent eruption. (2marks)

b) Describe how the following features are formed.

i) Batholiths. (6marks)

ii) Volcanic plug (5marks)

c) Explain three negative effects of volcanicity on human activities. (6marks)

d) You are planning to carry out a field study on features formed by volcanicity on the land scape

i) Formulate two null-hypotheses for the studies. (2marks)

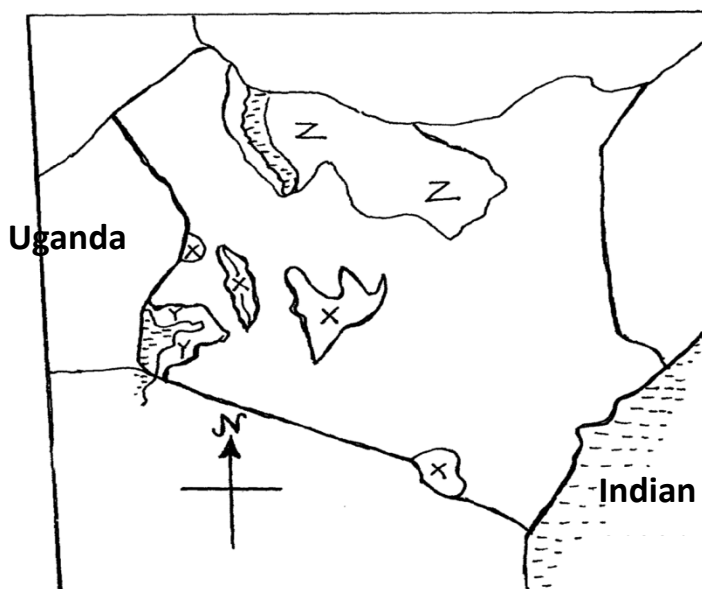
ii) Name two drainage features you are likely to study. (2marks)

iii) State two methods you would use to record information during the study. (2marks)

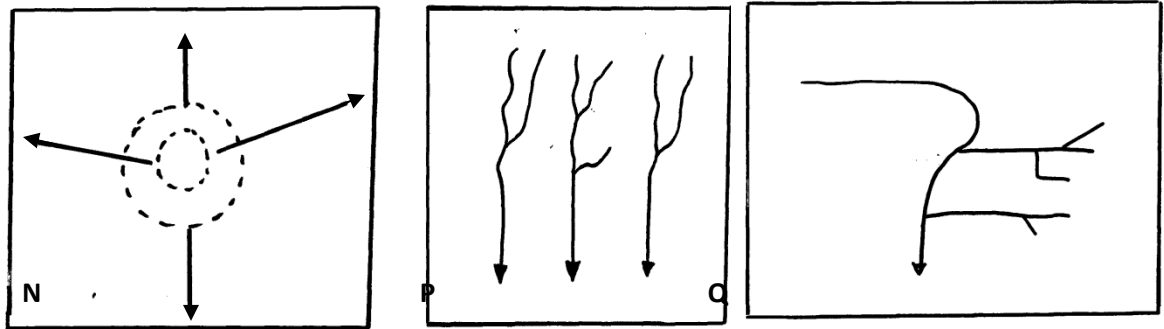
8. a) i) State **four** factors influencing the distribution of vegetation in the world (4mks)

ii) Explain **four** factors that have led to a decline of the natural grasslands in Kenya (8mks)

b) Use the Kenyan Map below to answer question b (i) and (ii)



- (i) Identify the vegetation zones marked X and Y (2mks)
- (ii) Give **five** characteristics of vegetation marked Z (5mks)
- c) Students from a school in western province carried out field study on vegetation along mountain slope.
- i) State **three** objectives they made for their study (3mks)
- ii) Give **three** problems they may have encountered during the field study (3mks)
9. (a) (i) Distinguish between a river tributary and a river confluence. (2mks)
- (ii) Describe how a river erodes its channel by the following processes.
- Hydraulic action (3mks)
  - Corrasion (3mks)
- (b) (i) Explain **three** factors which influence the rate of river erosion. (6mks)
- (ii) State **three** reasons why levees and raised river beds make flooding more dangerous. (3mks)
- (c) The diagrams below represent drainage patterns.



- (i) Identify the drainage patterns N, P and Q. (3mks)
- (ii) Describe how a river capture occurs. (5mks)
- 10.(a) (i) List three constituents of the soil (3mks)
- (ii) Draw a diagram of a mature soil profile (4mks)
- (iii) List any three reasons why some soils do not develop a mature profile (3mks)
- (b) (i) Name any three soil forming processes (3mks)

(ii) Explain how the following factors influence soil formation (6mks)

- Time
- Nature of the parent rock

(c) You intend to carry out a field study on soils in your district.

(i) State four characteristics you would look for in classifying soil. (4mks)

(ii) Identify any two natural causes of soil degeneration you observed. (2mks)

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**GEOGRAPHY**

**PAPER 1**

## **GAUGE 3 2023 KCSE PREDICTION** **INSTRUCTIONS TO CANDIDATES**

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- ii) Answer **all** questions in section A
- iii) In section B, answer question **6** and any other **two** questions.

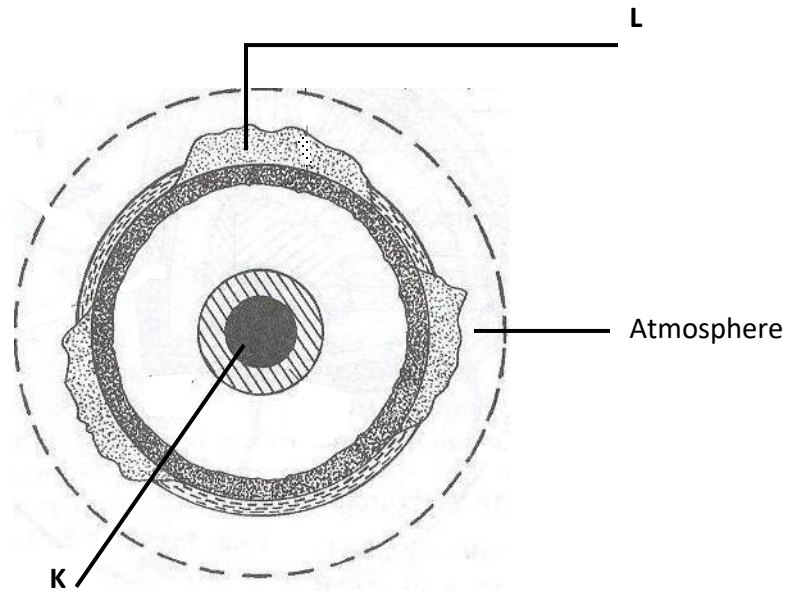
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A	1-5	25	
B	6	25	
		25	
		25	
<b>TOTAL SCORE</b>		<b>100</b>	

**SECTION A**

Answer **all** the questions in this section

1. The diagram below shows the structure of the earth.



- (a) Name the parts marked **K** and **L**. (2 marks)
- (b) Describe the composition of the mantle. (3 marks)
- 2.(a) State **two** factors influencing atmospheric pressure on the earth's surface. (2 marks)
- (b) Describe how a rain gauge is used to measure the amount of rainfall. (3 marks)
3. a) What is a rock? (2 marks)
- b) Give **three** characteristics of sedimentary rocks. (3 marks)
4. a) Differentiate between seismic focus and epicenter. (2 marks)
- b) i) Name the scale used to measure the intensity of earthquakes. (1 mark)
- ii) State **two** natural causes of earthquakes. (2 marks)

- 5 a) Define between soil catena (2 marks)  
b) Draw a well labeled diagram showing a mature soil profile (3 marks)

### SECTION B

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

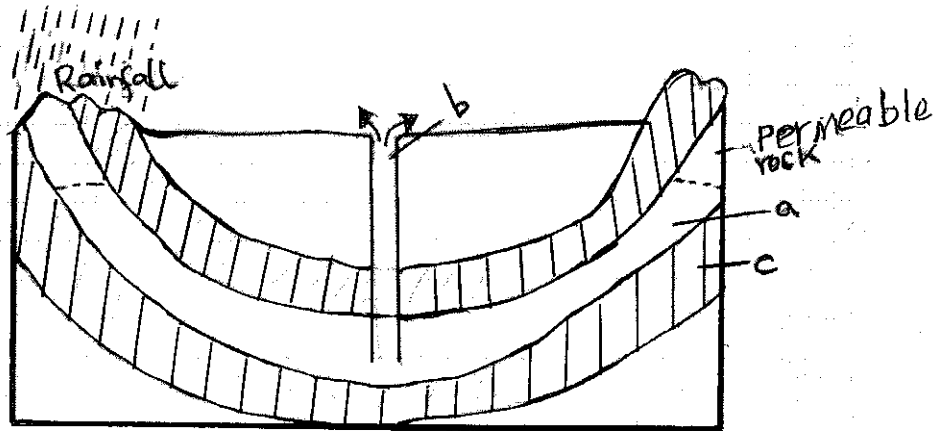
6. Study the map of Kisumu East 1:50,000 (sheet 116/2 ) provided and answer the following questions.

- a) i) Give **two** methods used to represent relief on the area covered by the map. (2 marks)
- ii) What is the four figure grid reference of the school at Bonjoge? (1 mark)
- iii) What is the bearing of the Trigonometric station around Otieno Oyoo from the church around Kadiju (2 marks)
- iv) Measure the distance in kilometres of the Kisumu municipality boundary covered by the map. (2 marks)
- b) i) Describe the drainage of the area covered by map. (5 marks)
- ii) Citing evidence from the map, state three social functions served by Kisumu town. (6 marks)
- c) (i) Enlarge the area bound by eastings 01 and 04, and northing 83 and 85 by two. (2marks)
- (ii) On the enlargement show:
- \* Seasonal Swamp (1 mark)
  - \* All weather Road (Bound Surface) (1 mark)
  - \* Main track (Motorable) (1 mark)
- iii) Calculate the new scale of the section drawn above (2marks)

- 7 a) i) State **three** causes of faulting. (3 marks)

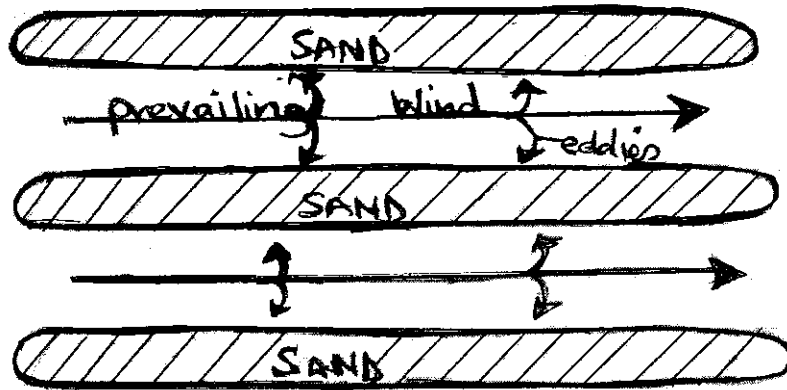
- ii) Differentiate between normal fault and reverse fault. (2 marks)
- b) i) With the aid of well labelled diagrams, explain how compressional forces can lead to the formation of a rift valley. (6 marks)
- ii) Give **two** examples of horst mountains in East Africa. (2 marks)
- c) Explain **four** effects of faulting on human activities. (8 marks)
- d) Students of Eshibeye secondary were planning to carryout a field study on faulted area within the Rift Valley
- i) State **one** objective they were likely to set (1mark)
- iii) Why would it be necessary for them to prepare a work schedule (3marks)
8. a) Differentiate between mass wasting and mass movement. (2 marks)
- b) i) State **two** causes of soil creep. (2 marks)
- ii) Explain **three** factors influencing mass wasting. (6 marks)
- c) i) List **four** processes of chemical weathering. (4 marks)
- ii) Describe the following physical weathering processes.
- Slaking (3 marks)
  - Exfoliation (3 marks)
- d) Students are planning to carry out a field study of on area affected by mass wasting.
- i) State two preparations they were likely to undertake before the actual field study (2 marks)
- ii) Identify **three** follow-up activities they were likely to undertake after the study. (3 marks)
- 9(a) i) State two factors that determine the size of a Lake in an area (3 marks)
- ii) Give three reasons why the Rift Valley Lakes are saline (2 marks)
- b) i) Explain how the following Lakes are formed citing an example of each:

- Lava Dammed Lakes (3 marks)
  - Ox bow lake (4 marks)
- ii) State three negative impact of human activities on lakes (3 marks)
- c) i) Differentiate between porous and pervious rocks in relation to underground water (2 marks)
- ii) Name the parts labeled a, b and c in the diagram below (3 marks)



- iii) State two conditions that are necessary for the formation of the artesian basins
- d) State the significance of underground water to man (3 marks)
- 10.(a) i) Differentiate between a desert and desertification (2 marks)
- ii) Explain how wind erosion occurs by the following processes:
- Attrition (2 marks)
  - Deflation (2 marks)
- iii) State three factors that influence wind erosion (3 marks)
- b) i) With the aid of a well labelled diagram, explain how yardangs are formed (4 marks)
- ii) Give three ways by which wind transports its load in arid areas (3 marks)
- c) i) Using the diagram answer the questions that follow.





- ii) Name the feature represented by the diagram (1 mark)
- iii) Explain how the feature in C (i) is formed. (3 marks)
- d) i) State two reasons why erosion is more dominant in deserts (2 marks)
- ii) State three effects of desert landforms on human activities (3 marks)

# GEOGRAPHY PP1 2023 GAUGE PREDICTION

**KENYA CERTIFICATE OF SECONDARY EDUCATION**

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**GEOGRAPHY**

**PAPER 1**

## **GAUGE 4 2023 KCSE PREDICTION** **INSTRUCTIONS TO CANDIDATES**

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- ii) Answer **all** questions in section A
- iii) In section B, answer question **6** and any other **two** questions.

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A	1-5	25	
B	6	25	
		25	
		25	
<b>TOTAL SCORE</b>		<b>100</b>	

**SECTION A: 25 MARKS**

1. a) What is atmosphere (2marks)
- b) Name the three transition layers of the atmosphere (3marks)
2. a) Explain two ways in which vegetation in the Nyika region of Kenya find adapted to the climatic condition experienced at the areas. (4marks)
- (b) Describe two ways in which biological weathering takes place (2mks)
3. a) What is the effect of international dateline on time? ( 2marks)
- b) Give the details of each of the following seasons;
- i) Equinox (1mark)
- ii) Summer solstice (1mrks)
- iii) Winter solstice (1marks)
4. a) Explain how the presence of cold ocean current influences the climate of the adjacent coastlands. (4marks)
5. a) What is folding? (2marks)
- b) Name one fold mountain in;
- i) North America (1mark)
- ii) Africa (1mark)
- iii) South America (1 mark)

**SECTION B (75 MARKS)**

6. You have been provided with a map extract of Kisumu east sheet 116/2 1:5000, study the map and answer the following questions.
- a) Apart from the map provided, name the other two types of maps. (2marks)
- b) Calculate the area of Kisumu municipality. Give your answer in kilometers. (3marks)
- c) Describe the drainage of the area covered by the map. (4marks)
- d) What is the longitudinal extend of the area covered by the map. (2marks)
- e) Give the six figure grid reference of the trigonometric station near Muhoroni-Kisumu road.

(2marks)

f) Explain how relief has influenced settlement in the area covered by the map. (6 marks)

g) (i) Draw a cross section between grid reference 070940 and 070000. Use the scale 1cm to represents 250m. (Marks)

(ii) On the cross section mark and name the all-weather roads (bound surface), Nyando escarpment and a hill. (6marks)

7. a) Describe the following characteristic of minerals.

i) Colour (2marks)

ii) Clearage (2marks)

iii) Hardness (2marks)

b) i) Give two types of igneous rocks (2marks)

ii) Explain three conditions necessary for the growth of coral polyps (6marks)

c) State four uses of rocks (4marks)

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

i) Give two secondary sources of information you could use to prepare the field study. (2marks)

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

• A fork jembe (1 mark)

• Carrier bag (1mark)

iii) Suppose during the field study you collect marble, sandstone and granite, classify each of this samples according to its mode of formation. (3marks)

8. a) Give three processes that lead to formation of lakes. (2marks)

b) i) Describe how Lake Victoria was formed. (4marks)

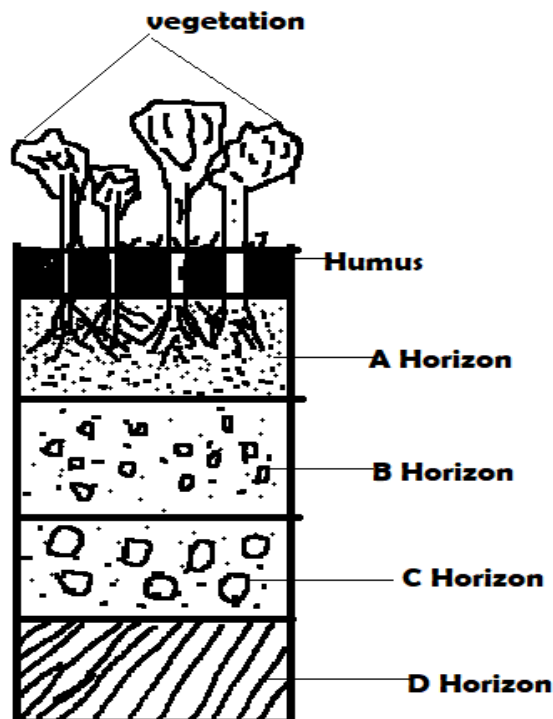
ii) Explain how Lake Victoria influences climate of the surrounding areas. (6marks)

c) i) a part from Lake Magadi, name two other lakes within the rift valley in lakes that have high level of salinity. (2marks)

ii) Explain three causes of salinity in Lake Magadi. (6marks)

d) Give four economic uses of lakes other than mining. (4marks)

9. a) State three characteristics of desert soil. (3marks)
- b) Identify two factors that contribute to soil leaching. (2marks)
- c) Explain how each of the following factors influences the formation of soil;
- i) Nature of the parent rocks (2marks)
- ii) Time (2marks)
- iii) Topography (2marks)
- d) (i) Define soil profile. (2marks)
- (ii) The diagram below represent a well developed soil profile. State the characteristics of horizon A

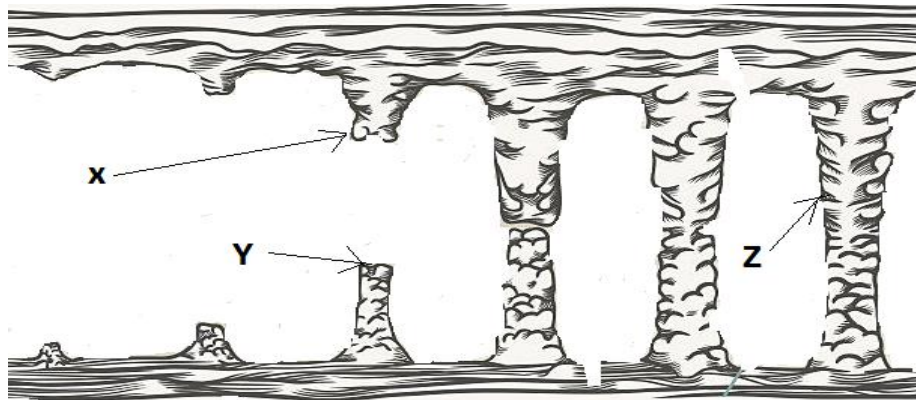


- e) Explain four ways in which human activities contribute to loss soil fertility. (4 marks).
10. (a)(i) Define underground water. (2 marks)
- (ii) Explain how the following factors influence availability of Underground water.
- Slope of the land (2mks)
  - Vegetation cover (2mks)
- (b)(i) State **three** conditions that are necessary for the formation of an Artesian well. (3 mrks)
- (ii) State **three** problems that are associated with an artesian well. (3 marks)

(c)(i) Differentiate between a Karst scenery and Karst region.

(2 marks)

(ii) The diagram below shows the underground features in limestone areas.



Identify the features marked X, Y and Z.

(3 marks)

(d) Four students of a school are planning to carry out a field study on a Karst landscape around their school.

(i) Name **two** surface features are likely to identify.

(2 marks)

(ii) Give **three** reasons why they needed a working schedule.

(3 marks)

(iii) Why was it necessary for them to divide into **groups** during their study? (3 marks)

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**GEOGRAPHY**

**PAPER 1**

## **GAUGE 5 2023 KCSE PREDICTION** **INSTRUCTIONS TO CANDIDATES**

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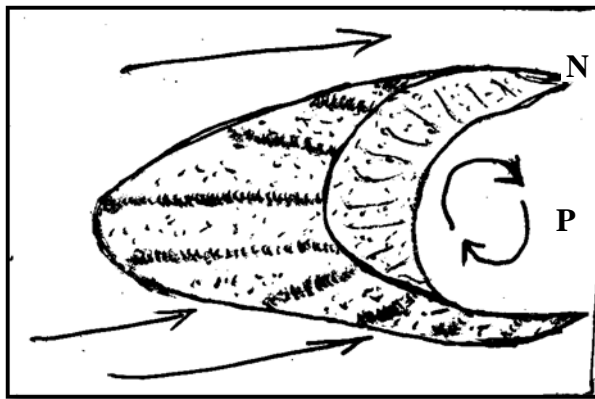
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**SECTION A**

**Answer all questions in this section**

1. (a) What is the relationship between Geography and Physics. (2 marks)
- (b) Name three main layers of the atmosphere from the earth's surface upwards. (3 marks)
2. The diagram below shows a barchan.



- (a) Name the feature marked N. (1 mark)
- (b) Name the air currents marked P. (1 mark)
- (c) Give three reasons why wind erosion is dominant in hot deserts (3 marks)
3. (a) Differentiate between vulcanicity and volcanicity? (2 marks)
- (b) State three effects of vulcanicity on agriculture (3 marks)
4. (a) State three causes of earth movements (3 marks)
- (b) Name two main earthquake zones in world (2 marks)
5. (a) Define the term oceans (2 marks)
- (b) State three reasons why ocean waters are salty (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 to answer questions that follow.

(a) (i) Give the sheet title. (2 marks)

(ii) Give the longitudinal extent of the area covered by the map. (2 marks)

(iii) Measure the length of the all-weather road bound surface 1321, from the junction at grid reference 974911 to the western edge of the map. Give your answer in kilometres.

(2 marks)

(b) (i) calculate the area of Kisumu Town. Give your answer in km<sup>2</sup>. (2 marks)

(ii) Name three human made features in the grid reference 0383 (3 marks)

(c) Describe the drainage of the area covered by the map. (5 marks)

(d) (i) Using a vertical scale of 1cm represents 20 metres, draw a cross section between Eastings 95 and 01 along Northing 98. (4 marks)

On the cross section, mark and label:

- Regional boundary  
(1 mark)
- River  
(1 mark)
- Road  
(1 mark)

(ii) Calculate the vertical exaggeration, (V.E) of the cross section.  
(2 marks)

7. (a) (i) Apart from simple fold, name three other types of fold. (3 marks)

(ii) Identify two characteristics of simple fold. (2 marks)

(iii) Give two factors that influence the magnitude of folding (2 marks)

(b) Mention three fold-mountain forming periods.  
(3 marks)

(c) (i) Using a well-labelled diagram, describe the formation of a fold mountain.  
(7 marks)

(ii) State three significance of fold mountain to man  
(3 marks)

(d) suppose you carried out a field study in an area affected by folding.

(i) List three methods you used to collect data.  
(3 marks)

(ii) Give two reasons why you could conduct a pre-visit.  
(2 marks)

8. (a) (i) What is soil catena? (2 marks)

(ii) Give three components of soil. (3 marks)

(b) (i) List characteristics of desert soils.  
(3 marks)

(ii) Give two factors that contribute to soil leaching  
(2 marks)

(c) (i) state two economic uses of soils.  
(2 marks)

(ii) Explain how the following farming practices may lead to loss of soil fertility:

- Overgrazing (2 marks)
- Frequent ploughing (2 marks)
- Continuous irrigation (2 marks)

(d) You are supposed to carry out a field study of an eroded area.

(i) What information would you collect through observation that would indicate that the area is severely eroded?  
(3 marks)

(ii) State four recommendations you would give to control soil erosion.  
(4 marks)

9. (a) (i) List any three sources of underground water  
(3marks)

(ii) Differentiate pervious rocks from porous rocks  
(2marks)

(b) Explain four factors that influence the occurrence of underground water.  
(8marks)

(c) (i) Mention any three factors necessary for the formation of karst features.  
(3marks)

(ii) List any three underground features of karst areas  
(3marks)

(d) Explain any three significance of karst features to man.  
(6marks)

10. (a) What is river capture? (2 marks)
- (b) (i) List three types of meanders at a lower course of a river. (3 marks)
- (ii) State three factors influencing the rate of erosion. (3 marks)
- (c) (i) Give three processes of river erosion (3 marks)
- (ii) Describe four processes through which a river transports its load (8 marks)
- (d) Explain three negative influences of rivers on human activities (6 marks)