

Kenya Certificate of Secondary Education

312/1

- GEOGRAPHY -
INTERCOUNTY JOINT EXAMINATION

Paper 1

TERM 2 2023

TIME: 2 HOURS 45 MINUTES

NAME..... INDEX NO.....

CANDIDATE'S SIGNATURE..... DATE.....

SCHOOL..... STREAM.....

Instructions to the candidates

- a) Write your name and index number in the spaces provided above.
- b) Sign and write the date of examination in the spaces provided above.
- c) This paper consists of two sections; A and B.
- d) Answer ALL 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 7 printed pages.
- h) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

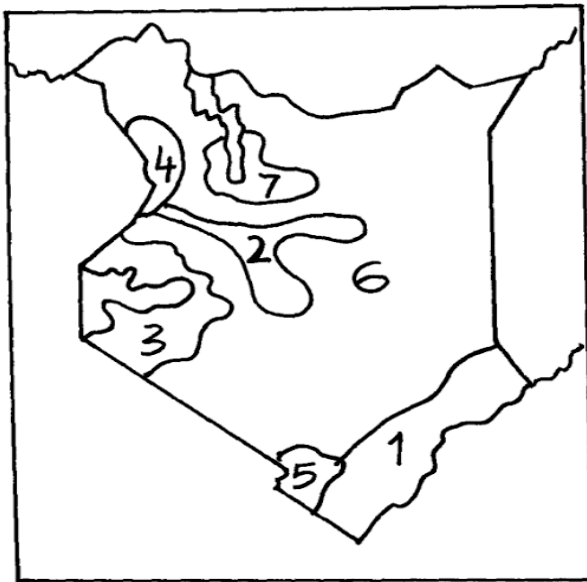
FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

Answer ALL questions in this section.

1. a) State three factors considered while setting up a weather station. **(3 marks)**
- b) Identify the climatic belts labeled 1 and 7 on the map provided below. **(2 marks)**



2. a) Differentiate between orogeny and orogenesis. **(2 marks)**
- b) Name the countries in which the following fold mountains are found.
- i) Atlas **(1 mark)**
 - ii) Himalayas **(1 mark)**
 - iii) Andes **(1 mark)**
3. a) What is derived vegetation? **(2 marks)**
- b) State three ways in which vegetation in the Nyika plateau is adapted to the climatic conditions there. **(3 marks)**

4. a) Define river competence. (2 marks)
b) State three characteristics of a flood plain. (3 marks)

5. a) Define the term desertification. (2 marks)
b) Apart from rock pedestal, name three features that result from wind erosion. (3 marks)

SECTION B

Answer question 6 and TWO other questions from this section

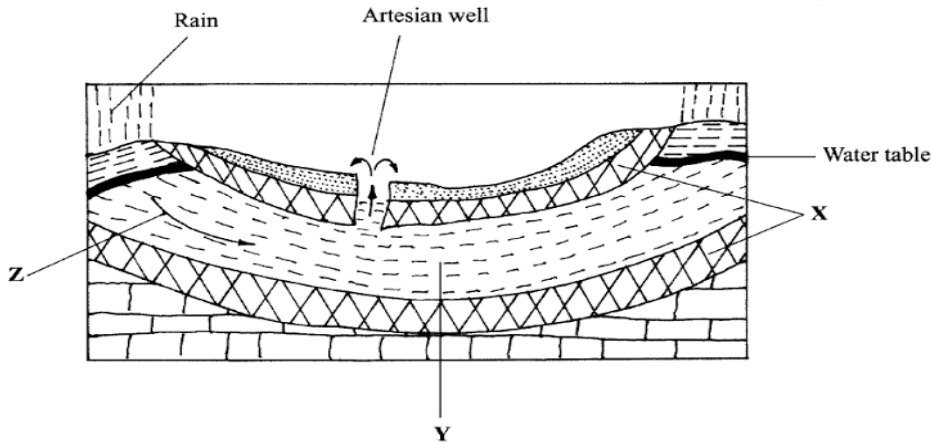
6. Study the map extract of Kisumu East 1:50,000 (Sheet 116/2) provided and answer the following questions.

- a. i) Name two information derived from the sheet title. (2 marks)
ii) What is the bearing of trigonometric station **1154 SKP21** from Air Photo Principal Point **03** next to Obumba school? (2 marks)
iii) Locate the North Western corner of the map in terms of latitudes and longitudes. (2 marks)
- b. i) Name two relief features found at the North Eastern part of the map. (2 marks)
ii) Describe the vegetation distribution on the area covered by the map. (4 marks)
- c. i) Reduce by $\frac{1}{2}$ the area West of Easting 01 and North of Northing 96. (1 mark)

On it label;

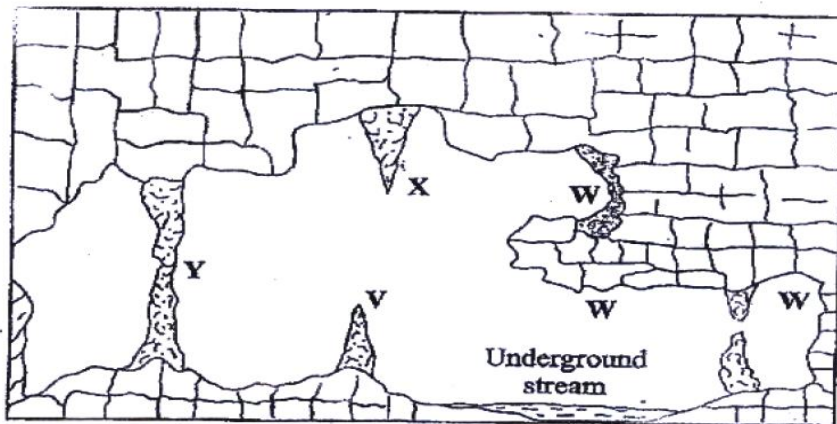
- Regional boundary. (1 mark)
- River Nyang'ori. (1 mark)

- Dry weather road. (1 mark)
 - Chief's Office. (1 mark)
- ii) Calculate the new scale. (2 marks)
- d. Explain how the following factors have influenced the distribution of settlement in area covered by the map.
- i) Drainage (2 marks)
 - ii) Relief (2 marks)
 - iii) Economic activities (2 marks)
7. a i) Name two forces that are responsible for the shape of the planet earth. (2 marks)
- ii) State two ways through which geographers gather information about internal part of the earth. (2 marks)
 - iii) Describe origin of the earth according to Nebula cloud theory. (5 marks)
- b. i) Differentiate between revolution and rotation of the earth. (2 marks)
- ii) When it is noon in London 0° what is East African Standard Time. (2 marks)
 - iii) Outline three effects of rotation of the earth. (3 marks)
- c. i) Apart from Autumn, name three other seasons that occur on earth. (3 marks)
- ii) Describe three climatic conditions associated with autumnal season. (3 marks)
- d. Describe the structure of the earth's crust. (3 marks)
8. a. i) Name three sources of underground water. (3 marks)
- ii) Explain how the following factors affect the occurrence of underground water.
 - Slope (2 marks)
 - Vegetation cover (2 marks)
 - iii) Differentiate between aquiclude and aquifuge. (2 marks)
- b) Study the diagram below and use it to answer question **b (i)** and **b(ii)**



- i) Identify the layers marked **X** and **Y**. **(2 marks)**
- ii) Identify the process marked **Z**. **(1 mark)**
- iii) State four conditions that favor the location of an artesian well. **(4 marks)**

c) The diagram below represents underground features in a limestone area. Use it to answer the questions below.



- i) Name the features marked **X** and **V**. **(2 marks)**
- ii) Describe how the feature marked **Y** is formed. **(5 marks)**
- d) Give two reasons why there are few settlements in a karst landscape. **(2 marks)**

9. a)

- i) State two characteristics of ocean water. **(2 marks)**
- ii) State three factors which influence horizontal movement of ocean water. **(3 marks)**

b) Explain how the following factors determine the effectiveness of wave erosion along the coast.

i) Nature of materials transported by waves. **(2 marks)**

ii) Nature of the coastal rocks. **(2 marks)**

c) With a well labelled diagram describe the formation of a tombolo. **(6 marks)**

d)

i) State four conditions that favor the growth of coral. **(4 marks)**

ii) Explain three ways in which coral contributes to the economy of Kenya. **(6 marks)**

10 (a)

i) Name two types of soil. **(2 marks)**

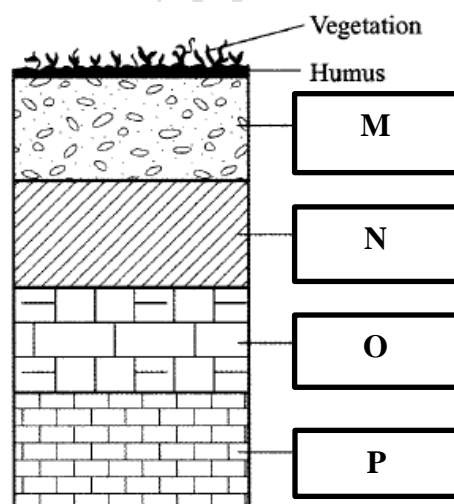
ii) Give three importance of humus in the soil. **(3 marks)**

b i) Explain how the following factors influence soil formation.

- Parental material. **(2 marks)**
- Time **(2 marks)**

ii) Describe the process of lateralization. **(5 marks)**

(c) The diagram below shows a simple soil profile.



- i) Name the parts marked **N, O** and **P**. **(3 marks)**
- ii) State two characteristics of the layer marked **M**. **(2 marks)**
- (d) Your class conducted a field study on an area affected by soil erosion.
- i) List three types of soil erosion you are likely to identify. **(3marks)**
- ii) Give three indicators that the area visited was severely eroded. **(3 marks)**

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