

THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education



Paper 1

312/1

GEOGRAPHY

Nov. 2023 – 2 $\frac{3}{4}$ hours

Serial No.

26053229

Name: **Index Number:**

Candidate's signature: **Date:**

Instructions to 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** the questions in section **A**.
- (e) In section **B** answer **question 6** and any other **two** questions.
- (f) Answers **must** be written in the spaces provided at the end of question 10.
- (g) **This paper consists of 20 printed pages.**
- (h) **Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**
- (i) **Candidates should answer the questions in English.**



For Examiner's Use Only

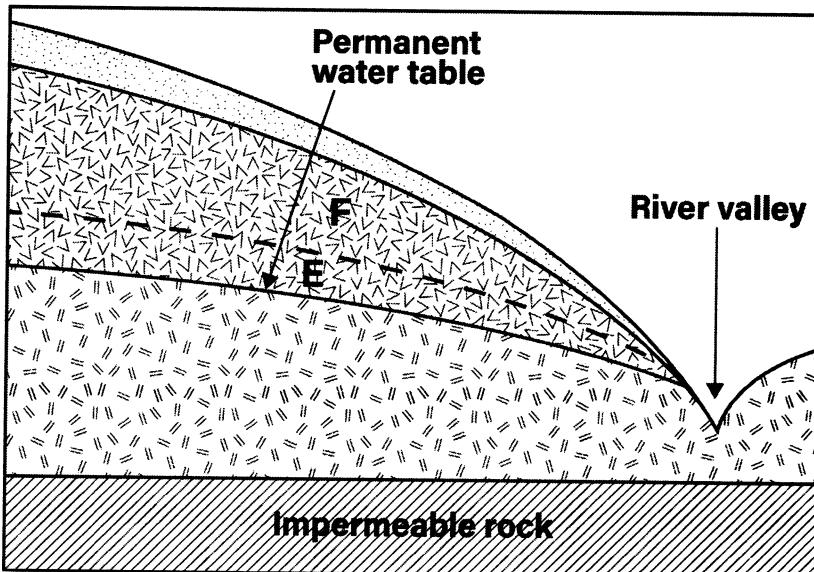
| Section | Questions | Maximum Score | Candidate's Score |
|---------|-----------|---------------|-------------------|
| A | 1-5 | 25 | |
| | 6 | 25 | |
| | | 25 | |
| | | 25 | |
| | | 100 | |



SECTION A (25 marks)*Answer all the questions in this section.*

- 1 (a) Differentiate between weathering and mass wasting. (2 marks)
- (b) Identify **three** ways in which temperature change influences physical weathering. (3 marks)
- 2 Describe how a land breeze occurs. (5 marks)
- 3 (a) Distinguish between weather and climate. (2 marks)
- (b) State **three** negative effects of desertification on the physical environment. (3 marks)
- 4 (a) State **two** factors that influence river erosion. (2 marks)
- (b) Name the **three** types of sand dunes. (3 marks)

5 **Figure 1** shows zones of ground water. Use it to answer question 5 (a).

**Figure 1**

- (a) Name the zones marked E and F. (2 marks)
- (b) State **three** conditions that favour the formation of an artesian basin. (3 marks)

SECTION B (75 marks)

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

- 6** Study the 1965 map of Mumias 1:50,000 (Sheet 101/2) provided and answer the following questions.



- (a) (i) Convert the scale of the map into statement scale. (2 marks)
- (ii) Give the six figure grid reference for the school at Mungabo. (2 marks)
- (iii) Identify **three** types of natural vegetation found to the south of Northing 36. (3 marks)
- (iv) What is the bearing of the school at Khamashia from the school at Ihonje? (2 marks)

- (b) Using a vertical scale of 1 cm to represent 20 m, draw a cross section from grid reference 580410 to 670410. On the cross-section, mark and name:

- (i) all weather road - loose surface;
- (ii) riverine trees;
- (iii) river Nzoia;
- (iv) seasonal swamp. (7 marks)

- (c) Citing evidence from the map, explain **two** factors favouring trading in the area. (4 marks)

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

- 7** (a) (i) Give **three** sources of lake water. (3 marks)
- (ii) State **three** characteristics of lakes formed due to faulting. (3 marks)

- (b) Describe how the following lakes are formed:

- (i) moraine dammed; (6 marks)
- (ii) lagoon. (5 marks)

- (c) Explain **four** ways in which lakes influence the climate of the surrounding areas. (8 marks)



- 8**

 - (a) (i) Define the term glaciation. (2 marks)
 - (ii) Explain **three** negative effects of glaciation on human environment. (6 marks)
 - (b) (i) Give **three** ways in which ice moves. (3 marks)
 - (ii) Explain **two** factors that influence movement of ice. (4 marks)
 - (c) Describe how each of the following features is formed:
 - (i) outwash plain; (4 marks)
 - (ii) Roché mountonee. (6 marks)

9

 - (a) Give **two** reasons why wind is more active in hot deserts. (2 marks)
 - (b) Describe how the following features found in hot deserts are formed:
 - (i) mushroom block; (4 marks)
 - (ii) yardangs. (4 marks)
 - (c) Explain **three** ways in which features resulting from wind action in arid areas are important. (6 marks)
 - (d) Some students carried out a field study on wind deposition features in an arid area in Kenya.
 - (i) Name **three** secondary sources of information they are likely to rely on while preparing for the study. (3 marks)
 - (ii) State **three** reasons why it was necessary for the students to visit the area before the actual field study. (3 marks)
 - (iii) Give **three** advantages of studying wind depositional features through field work. (3 marks)

- 10**

(a) Classify soils according to order. (3 marks)

(b) Explain how the following factors influence soil formation:

(i) parent rock; (4 marks)
(ii) climate. (6 marks)

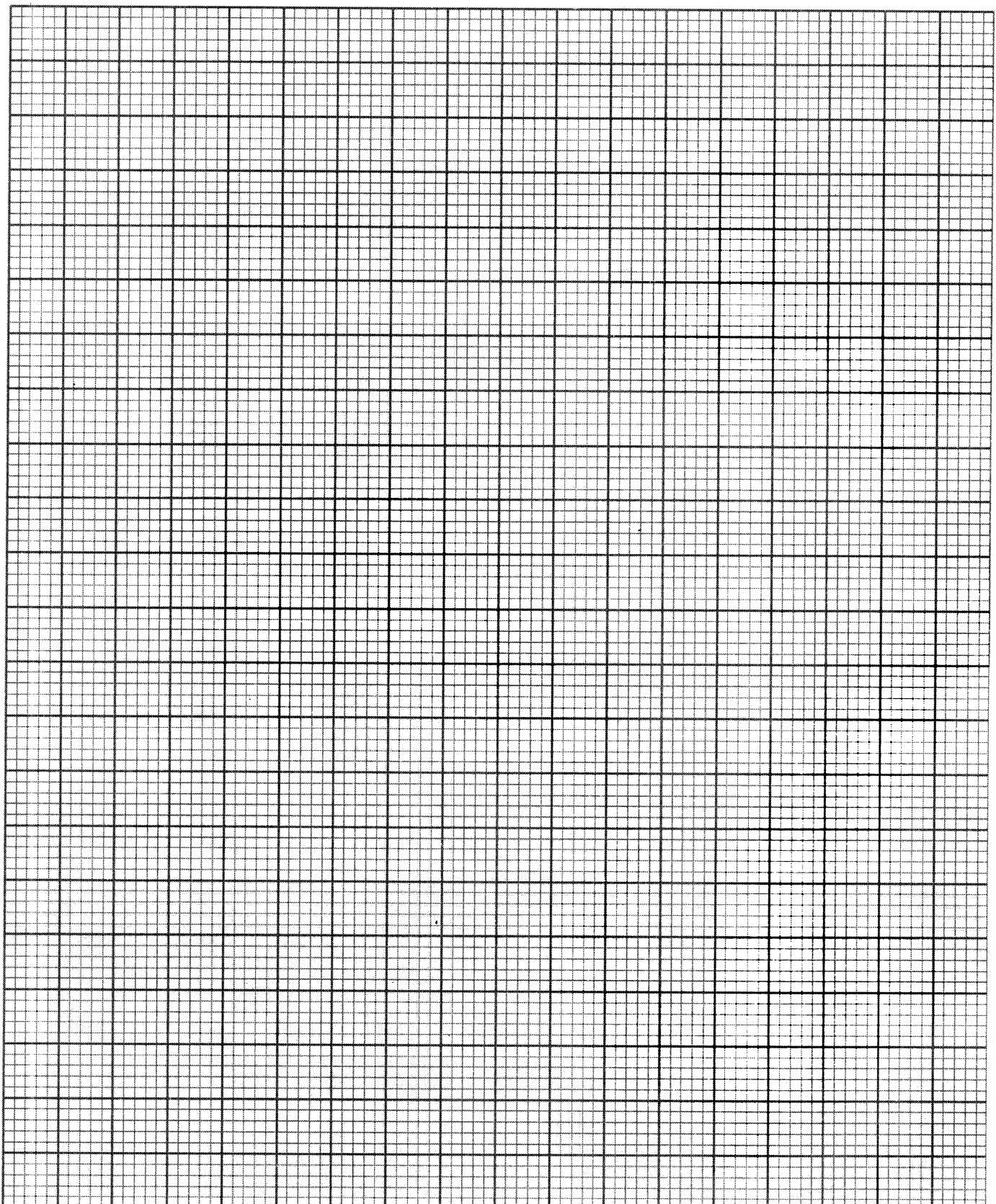
(c) State **five** economic uses of soil. (5 marks)

(d) Students in a secondary school intend to carry out a field study on soils within their local environment.

(i) Give **three** activities the students are likely to carry out during the study. (3 marks)

(ii) List **four** properties of soil the students would study. (4 marks)





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Kenya Certificate of Secondary Education, 2023

THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education



Paper 2

312/2

GEOGRAPHY

Nov. 2023 – 2 $\frac{3}{4}$ hours

Serial No.

27402768

Name: **Index Number:**

Candidate's signature: **Date:**

Instructions to 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 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 20 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.**
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For Examiner's Use Only

| Section | Question | Maximum Score | Candidate's Score |
|--------------------|-----------------|----------------------|--------------------------|
| A | 1 - 5 | 25 | |
| B | 6 | 25 | |
| | | 25 | |
| | | 25 | |
| Total Score | | 100 | |



Turn over

SECTION A (25 marks)



Answer all the questions in this section.

- 1 (a) Name **two** minerals that occur as weathering products. (2 marks)
- (b) State **three** uses of soda ash. (3 marks)
- 2 (a) Name the hydroelectric power projects located in each of the following rivers in Africa:
 - (i) River Zambezi; (1 mark)
 - (ii) River Volta. (1 mark)
- (b) State **three** factors that have hindered the development of solar energy in Kenya. (3 marks)
- 3 **Figure 1** is a map that shows wheat growing areas of Canada. Use it to answer question 3(a).

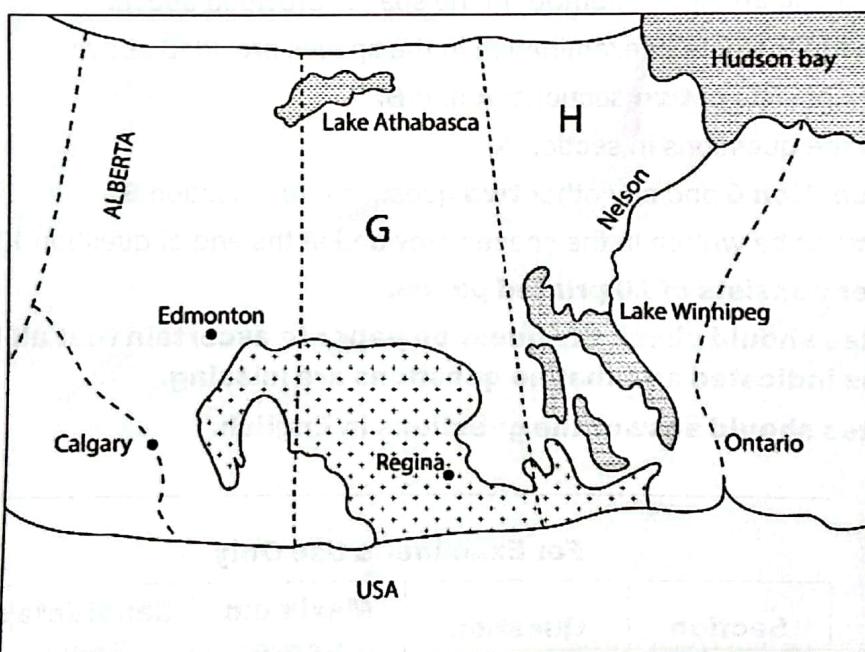


Figure 1

- 4 (a) Name the provinces marked **G** and **H**. (2 marks)
- (b) State **three** reasons for the increase in the price of maize in Kenya. (3 marks)
- (a) Explain the term *visible trade*. (2 marks)
- (b) State **three** economic benefits of Southern African Development Community (SADC) to its member states. (3 marks)

5. (a) Apart from pollution, name **two** other environmental hazards that occur as a result of human activities. (2 marks)
- (b) State **three** effects of air pollution on the physical environment. (3 marks)

SECTION B (75 marks)



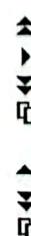
Answer question 6 and any other two questions from this section.

- 6 Study the following photograph and use it to answer question 6(a).



- (a) (i) What evidence in the photograph shows that it is a ground general view type of photograph? (2 marks)
- (ii) Draw a rectangle 14 cm by 8 cm to represent the area of the photograph. On it, sketch and label the main features shown in the photograph. (6 marks)

- (b) Explain **four** measures that African countries would undertake to solve the challenges associated with railway transport. (8 marks)
- (c) State **five** reasons why there has been limited use of river transport in Africa. (5 marks)
- (d) Give **four** ways in which the use of mobile phones has contributed to the economy of Kenya. (4 marks)
- 7** (a) Give **four** physical conditions that favour sugarcane growing in the Lake Victoria basin. (4 marks)
- (b) (i) Describe the stages involved in the processing of sugarcane at the factory. (6 marks)
- (ii) Apart from sugar, give **three** other products obtained from sugarcane. (3 marks)
- (c) Explain **three** causes for the decline of sugarcane farming in Kenya. (6 marks)
- (d) Explain **three** ways in which the Kenyan government is promoting the sugar industry. (6 marks)
- 8** (a) (i) Define *horticulture*. (2 marks)
- (ii) Outline **five** characteristics of horticultural farming in Kenya. (5 marks)
- (b) (i) Give **four** physical factors that favour horticultural farming in Kenya. (4 marks)
- (ii) Explain **three** challenges that horticultural farmers experience in marketing their produce. (6 marks)
- (c) You intend to carry out a field study in a nearby horticultural farm.
- 
- (i) Apart from flowers, identify the other **two** types of crops you are likely to find in the farm. (2 marks)
- (ii) Give **two** sources of information that you would use for the field study. (2 marks)
- (iii) State **four** factors that have contributed to fast growth of the flower farming sub-sector in Kenya. (4 marks)



- 9**
- (a) (i) Differentiate between pelagic and demersal fish. (2 marks)
 - (ii) Describe the drift method of fishing. (6 marks)
 - (b) Explain **four** reasons why there is widespread fresh water fishing in East Africa. (8 marks)
 - (c) (i) Explain how each of the following factors influence fishing in Kenya and Japan:
 - i) market; (2 marks)
 - ii) technology. (2 marks)
 - (ii) State the significance of fishing to the economy of Kenya. (5 marks)
- 10**
- (a) (i) Name **two** types of settlement patterns found in rural areas. (2 marks)
 - (ii) State **five** factors that have contributed to the emergence of slums in urban centres. (5 marks)
 - (b) Explain **four** functions of Eldoret town. (8 marks)
 - (c) State **four** factors that led to the growth of New York City in America. (4 marks)
 - (d) Explain **three** measures that have been undertaken to reduce motor vehicle traffic congestion in Nairobi city. (6 marks)