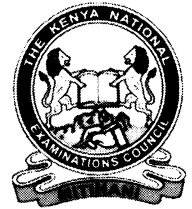


THE KENYA NATIONAL EXAMINATIONS COUNCIL
Kenya Certificate of Secondary Education



Paper 1

312/1

GEOGRAPHY
Nov. 2023 – 2¾ hours

Serial No.
26053229

Name: **Index Number:**

Candidate's signature: **Date:**

Instructions to Candidates

- Write your name and index number in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- This paper consists of **two** sections; **A** and **B**.
- Answer **all** the questions in section **A**.
- In section **B** answer **question 6** and any other **two** questions.
- Answers **must** be written in the spaces provided at the end of question 10.
- This paper consists of 20 printed pages.**
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.**
- Candidates should answer the questions in English.**

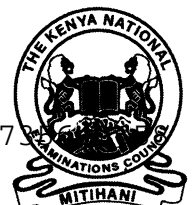


For Examiner's Use Only

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



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Turn over

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).

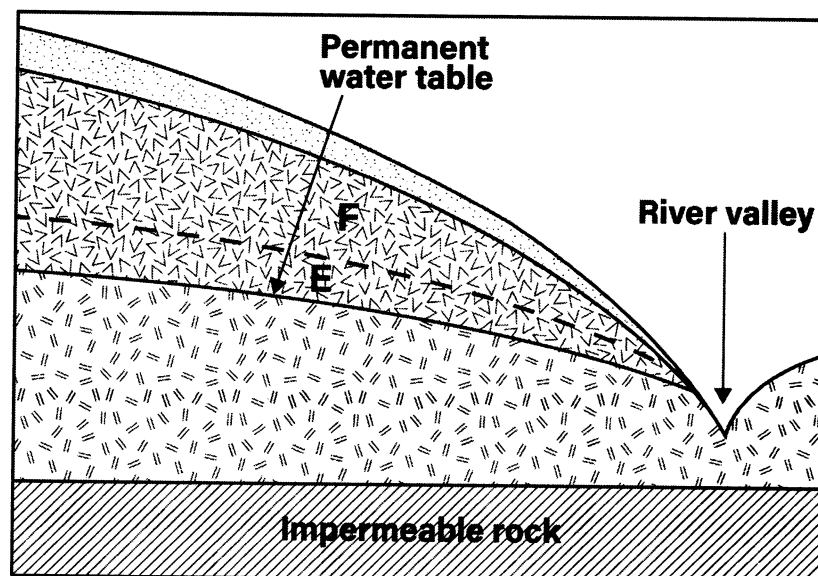


Figure 1

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

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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.

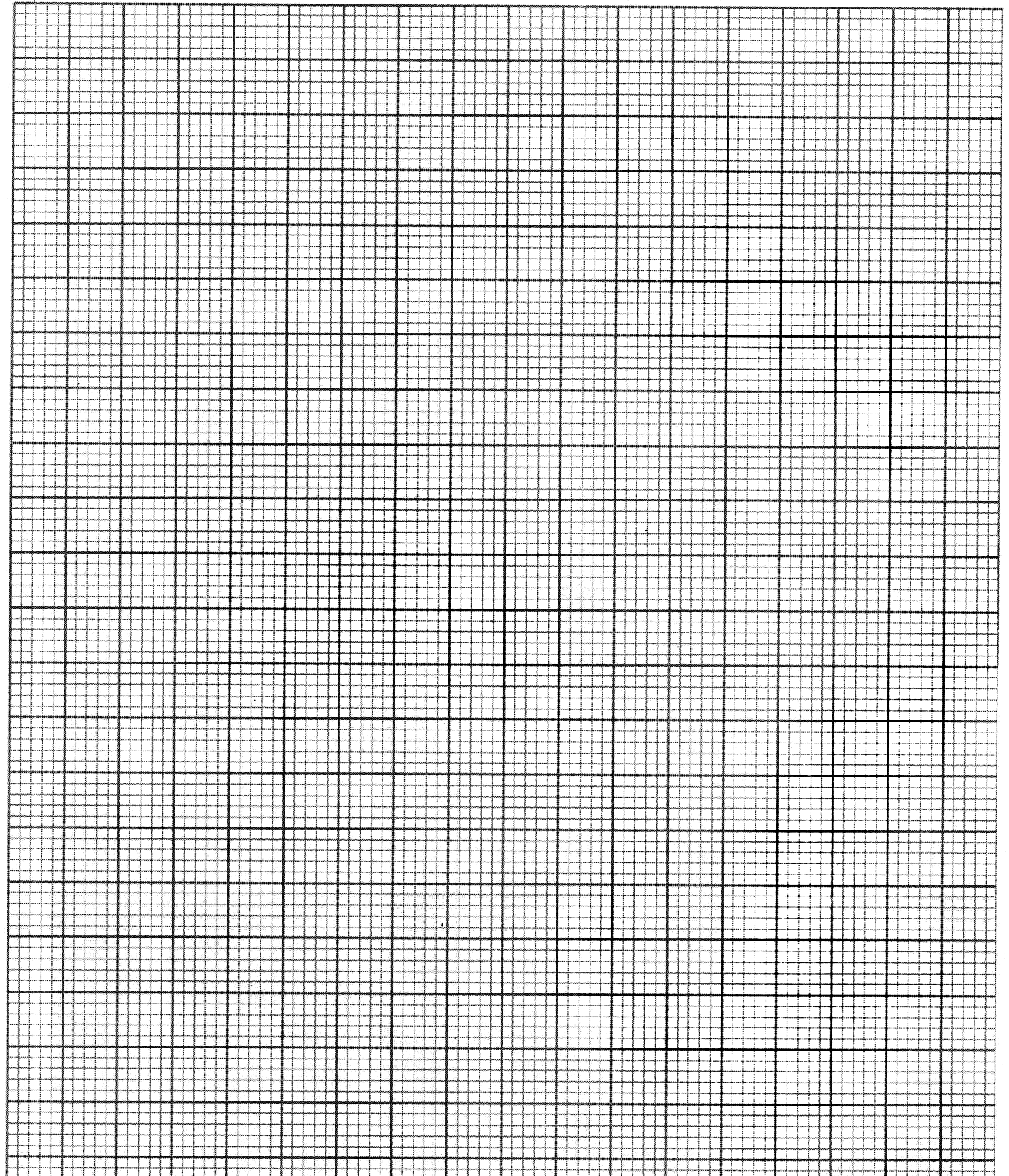


- (a) (i) Convert the scale of the map into statement scale. (2 marks)
- (ii) Give the **six** figure grid reference for the school at Mungabo. (2 marks)
- (iii) Identify **three** types of natural vegetation found to the south of Northing 36. (3 marks)
- (iv) What is the bearing of the school at Khamashia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

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- 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)



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