

Kenya Certificate of Secondary Education
FORM 3 END TERM

312/1

GEOGRAPHY

Paper 1

March 2024 - TIME: 2¾ Hours

Name:ADM No:.....Stream:.....

Instructions to candidates

- (a) Write your name, admission number and class in the spaces provided above.
- (b) This paper has **two** sections: **A** and **B**
- (c) Answer **all** the questions in section **A**
- (d) Answer **question 6** and any other **two** questions from section **B**
- (e) All answers must be written in the spaces provided after Question 10.
- (f) This paper consists of 13 printed pages.
- (g) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

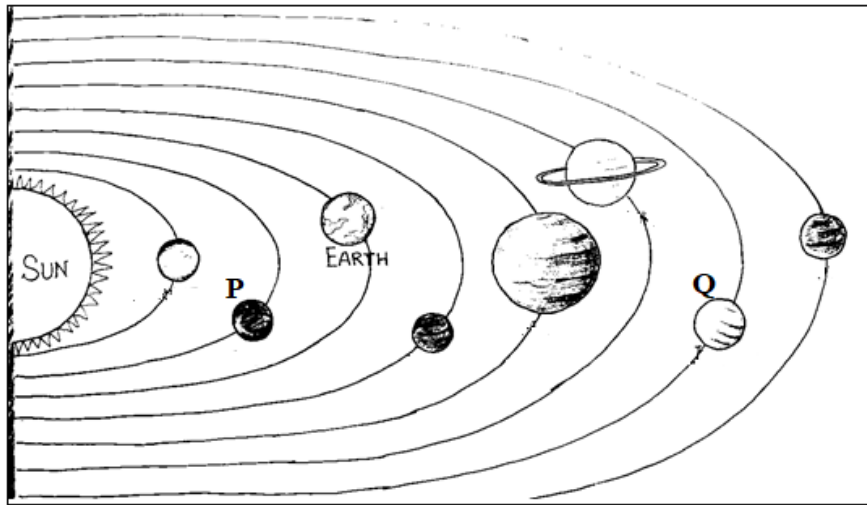
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Section	Questions	Candidate's Score	Maximum Score
A	1 – 5		25
B	6		25
			25
			25
	Total Score		100

SECTION A

Answer all the questions in this section

1. (a) Name **two** branches of physical geography. (2 marks)
- (b) Give **three** importance of studying practical geography. (3 marks)
2. The diagram below shows the solar system. Use it to answer questions (a) and (b).



- (a) Identify the planets labelled **P** and **Q**. (2 marks)
- (b) State **three** characteristics of the sun. (3 marks)
3. (a) Give **two** examples of hypabyssal rocks. (2 marks)
- (b) State **three** factors that determine the rate of rock metamorphism. (3 marks)
4. (a) What is folding? (2 marks).
- (b) Name **three** fold mountains that were formed during the Alpine orogeny. (3 marks)
5. (a) Give **two** internal transfer processes of hydrological cycle. (2 marks)
- (b) State **three** significance of hydrological cycle. (3 marks)

SECTION B

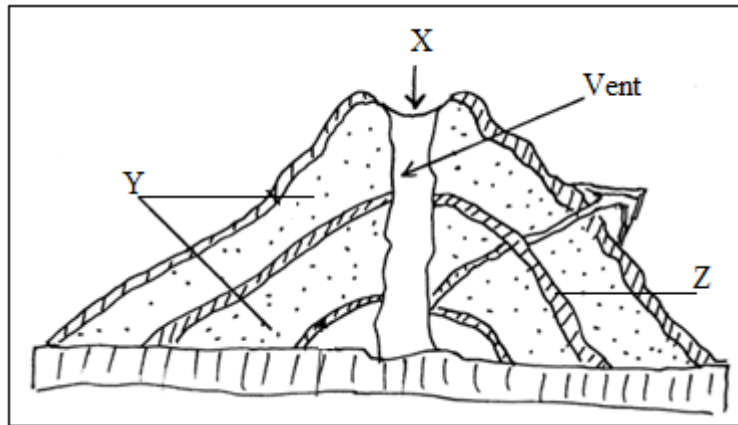
Answer question 6 and any other two questions in this section

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

- (a) (i) Give the title of the map. (1 mark)
- (ii) Name **two** districts in the area covered by the map. (2 marks)
- (iii) What is the altitude of the highest point covered by the map? (2 marks)
- (b) (i) What is the bearing of Tingolo school from Indangalasia school? (2 marks)
- (ii) Identify **three** physical features in grid square 5829. (3 marks)
- (c) Give **four** types of natural vegetation found in the area covered by the map. (4 marks)
- (d) Describe the drainage of the area covered by the map. (5 marks)
- (e) Citing evidence from the map, identify **three** social activities carried out in the area covered by the map. (6 marks)

7. (a) (i) Give **two** types of magma. (2 marks)
- (ii) State **four** causes of vulcanicity (4 marks)

(b) The diagram below shows a composite volcano. Use it to answer the questions that follow.



- (i) Identify the parts labelled X, Y and Z. (3 marks)
- (ii) A part from composite volcanoes, give **three** other types of volcanoes. (3 marks)
- (iii) Describe how a composite volcano is formed. (5 marks)
- (d) Explain **four** significances of volcanic features. (8 marks)

8. (a) (i) Differentiate between weather and climate. (2 marks)

(ii) Explain how the following factors influences the climate of an area

- Altitude (2 marks)
- Human activities (4 marks)

(b) (i) A part from Lake Victoria, give **two** other factors that have modified the Kenyan climate. (2 marks)

(ii) State **four** characteristics of the modified equatorial climate of the lake basin. (4 marks)

(c) Explain **three** natural causes of aridity and desertification. (6 marks)

(d) Members of your class plan to conduct a field study in a nearby weather station.

(i) Give **two** methods you would use to collect data. (2 marks)

(ii) State **three** problems you are likely to experience during the fieldwork. (3 marks)

9. (a) Give **three** agents of weathering. (3 marks)

(b) Describe the following processes of weathering.

- Unloading (4 marks)
- Carbonation (3 marks)

(c) (i) Differentiate between mass wasting and mass movement. (2 marks)

(ii) Give **three** processes of rapid mass wasting. (3 marks)

(d) Explain **three** causes of soil creep. (6 marks).

(e) State **four** negative effects of mass wasting. (4 marks)

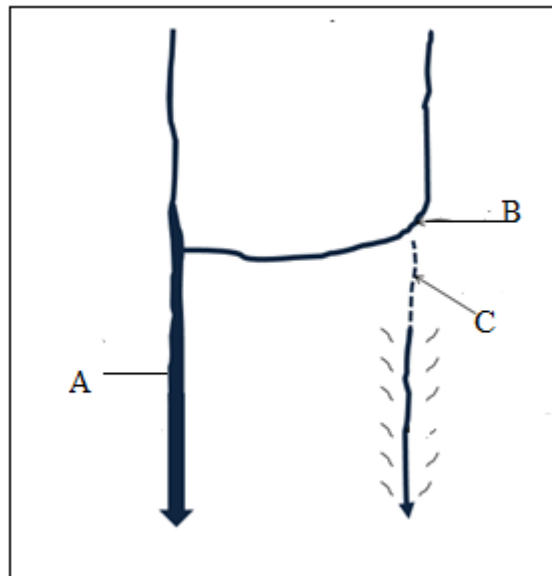
10. (a) (i) Differentiate between a river tributary and confluence. (2 marks)

(ii) Give **three** sources of rivers. (3 marks)

(b) Describe **three** process of river erosion.

(6 marks)

(c) The diagram below illustrates river capture. Use it to answer the questions that follow.



(i) Identify the parts marked A, B and C.

(3 marks)

(ii) Name **one** example of river capture in Kenya.

(1 mark)

(iii) State **four** conditions necessary for river capture to occur.

(4 marks)

(d) Members of your class intend to carry out a field study on the lower course of a river.

(i) Give **three** features you're likely to identify during the study.

(3 marks)

(ii) State **three** reasons why you would prepare a working schedule.

(3 marks)

NB: make sure you read the following topics as they will be tested in the opener exams

1. Weathering and mass wasting

2. Action of rivers

3. Vulcanicity

4. Weather and climate

5. Vegetation

6. Map work-cross section

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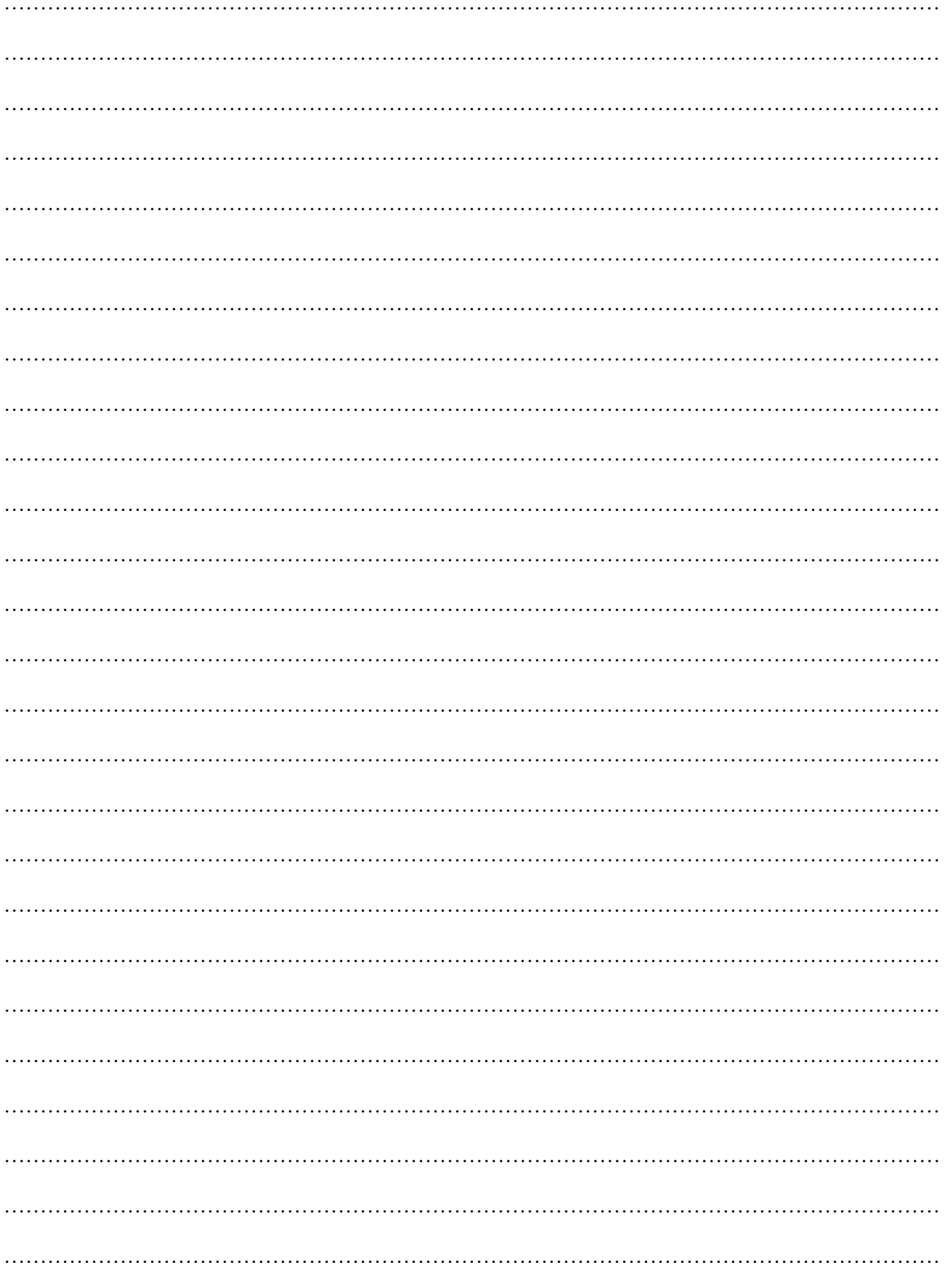
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