

GIDEONS ELITE BOYS CENTRE OF EXCELLENCE
DECEMBER SELF-ASSESSMENT EXAMINATIONS
FORM THREE

Kenya Certificate of Secondary Education
FORM 3 END TERM TWO EXAMINATIONS

312/1

GEOGRAPHY

Paper 1

DECEMBER 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 12 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.

For Examiner's Use Only

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

SECTION A

*Answer **all** questions in this section*

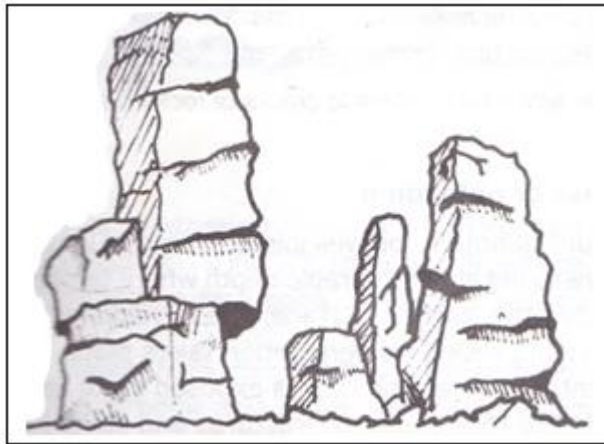
1. (a) Name **two** planets without satellites revolving around them. (2 marks)
(b) State **three** characteristics of the sun. (3 marks)

2. (a) Identify the instruments used to measure the following weather elements.
(i) Humidity (1 mark)
(ii) Wind direction (1 mark)
(b) State **three** factors considered when siting a weather station. (3 marks)

3. (a) What is earth movement? (2 marks)
(b) Give **three** causes of earth movements. (3 marks)

4. (a) Give **two** forms of landslides. (2 marks)
(b) State **three** negative effects of mass wasting on the environment. (3 marks)

5. The diagram below shows rocks which have undergone physical weathering.



- (a) Identify the process represented by the diagram. (1 mark)
- (b) Describe how the process represented above occurs. (4 marks)

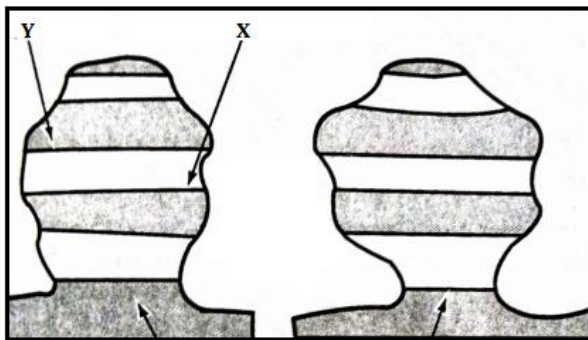
SECTION B

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) Name **two** map sheets to the eastern part of Mumias. (2 marks)
 - (ii) Give six-figure grid reference of Buhuyi dam in the northern part. (2 marks)
 - (iii) What is the bearing of Mungabo school from Tingolo school? (2 marks)
 - (b) (i) Give the general direction of flow of river Nzoia. (2 marks)
 - (ii) Identify **three** human made features in grid square 5037. (3 marks)
 - (c) Identify **three** types of natural vegetation in the area covered by the map. (3 marks)
 - (d) Describe the relief of the area covered by the map. (5 marks)
 - (e) Citing evidence from the map, identify economic activities carried out in Mumias. (6 marks)
7. (a) (i) Differentiate between minerals and rocks. (2 marks)
- (ii) State **five** characteristics of minerals. (5 marks)
- (b) Describe how igneous rocks are formed. (6 marks)
- (c) Give **two** examples of each one of the following categories of sedimentary rocks.
- (i) Mechanically formed rocks. (2 marks)
 - (ii) Chemically formed rocks. (2 marks)
- (d) Explain the significance of rocks to the economy. (8 marks)
8. (a) (i) State **three** causes of faulting. (3 marks)
- (ii) Differentiate between a normal fault and a reverse fault. (4 marks)
- (b) (i) A part from rift valley, give **two** other relief features formed due to faulting. (2 marks)
- (ii) With the aid of diagrams, describe how compressional forces can lead to formation of a rift valley. (8 marks)
- (c) Explain **four** effects of faulting on drainage. (8 marks)

9. (a) (i) What are ocean tides? (2 marks)
- (ii) Name **two** ocean currents along the western coast of Africa. (2 marks)
- (b) State **three** factors that determine the rate of coastal erosion. (3 marks)
- (c) With the aid of labelled diagrams, describe the formation of the following coastal features:
- (i) Fringing reef (5 marks)
- (ii) Spit (5 marks)
- (d) Explain the significance of oceans to human activities. (8 marks)

10. (a) (i) Give **two** classifications of deserts according to the nature of their surfaces. (2 marks)
- (ii) Name **three** hot deserts in the world. (3 marks)
- (b) State **three** factors that influence wind transportation in deserts. (3 marks)
- (c) The diagrams below show the formation of a feature of wind erosion in an arid area. Use it to answer the questions that follow.



- (i) Name the parts labeled **X** and **Y**. (2 marks)
- (ii) Describe how the feature is formed. (5 marks)
- (d) Members of your class plan to conduct a field study in an arid area in northern Kenya.
- (i) State **three** characteristics of arid areas they are likely to observe during the study. (3 marks)
- (ii) Identify **four** features of water erosion in arid areas you are likely to study. (4 marks)
- (iii) What problems are you likely to experience during the study? (3 marks)