

**MARANDA HIGH SCHOOL**

***Kenya Certificate Of Secondary Education***

**THE 2024 MOCK EXAMINATION**

**312/1 Geography Paper 1**

**June, 2024 TIME: 2½ Hours**

**Name**: …………………………………….…….…… Admission No: ……………

**312 - Geography**

Tuesday, 4th June, 2024

Afternoon

2.00-4.30pm

**Stream**: ……………………….. **Signature**: ……….........

***Instructions to candidates***

1. *Write your name, admission number and class in the spaces provided above.*
2. *This paper has* ***two*** *sections:* ***A*** *and* ***B***
3. *Answer* ***all*** *the questions in section* ***A***
4. *Answer* ***question 6*** *and any other* ***two*** *questions from section* ***B***
5. *All answers must be written in the spaces provided after Question 10.*
6. ***This paper consists of 14 printed pages.***
7. ***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**

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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*** *questions in this section.*

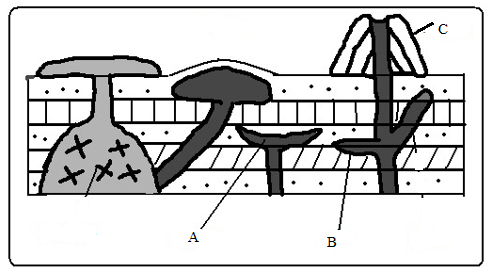
1. (a) Give **two** kinds of rock metamorphism. (2 marks)

(b) State **three** characteristics of metamorphic rocks. (3 marks)

1. (a) Define the term precipitation. (2 marks)

(b) State **three** conditions that are necessary for the formation of fog. (3 marks)

1. The diagram below shows some features of vulcanicity. Use it to answer the questions that follow.



(a) Identify the features marked **A** and **B**. (2 marks)

(b) Name **three** examples of the feature marked **C** found in the Kenyan rift valley. (3 marks)

1. (a) Give **two** processes of wind erosion in deserts. (2 marks)

(b) State **three** physical factors which contribute to the development of deserts. (3 marks)

1. (a) Name **two** types of soil according to texture. (2 marks)

(b) State **three** ways in which soil erosion can be controlled. (3 marks)

**SECTION B**

*Answer* ***question 6*** *and any other* ***two*** *questions in this section.*

1. Study the map of Meru (1:50,000) provided and answer the following questions.
2. (i) Give the latitudinal extent of the area covered by the map. (2 marks)

(ii) What is the approximate height of Ol Doinyo Sabu hill in feet? (2 marks)

(iii) Identify **three** physical features found in grid square 4120. (3 marks)

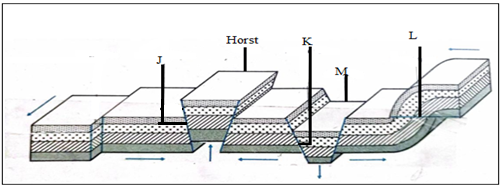
1. (i) Calculate the area of Meru Forest to the east of easting 50. (2 marks)

(ii) What is the length in kilometres of the road E807 in the southern part. (2 marks)

(iii) A part from forest, give **three** other types of natural vegetation in Meru area. (3 marks)

1. Describe the drainage of the area covered by the map. (5 marks)
2. Citing evidence from the map, identify **three** social services offered in Meru municipality. (6 marks)
3. (a) What is faulting? (2 marks)

(b) The diagram below shows some faults and associated features.



(i) Identify the faults marked **J, K** and **L**. (3 marks)

(ii) Name the feature labeled **M**. (1 mark)

(iii) Describe how a horst is formed by tensional forces. (4 marks)

(c) (i) Name **three** major faulted areas of the world. (3 marks)

(ii) State **four** ways in which faulting influence drainage. (4 marks)

(d) Explain **four** negative effects of faulting on the environment. (8 marks)

1. (a) Apart from water vapour, name **two** other substances that are suspended in the atmosphere. (2 marks)

(b) (i) Give **two** factors that are considered when classifying clouds. (2 marks)

(ii) Name **two** types of clouds that give rise to rainfall in tropical regions. (2 marks)

(c) Explain how the following factors influence climate.

(i) Altitude (4 marks)

(ii) Distance from the sea (4 marks)

(d) Explain **three** effects of climate change on the physical environment. (6 marks)

(e) Members of your class visited a nearby weather station to study recording of weather elements.

(i) State **two** features of a Stevenson screen you observed during the study. (2 marks)

(ii) Identify **three** types of data you likely collected during the study. (3 marks)

1. (a) What is mechanical weathering? (2 marks)

(b) (i) A part from living organisms, give **two** other factors that influence rate of weathering. (2 marks)

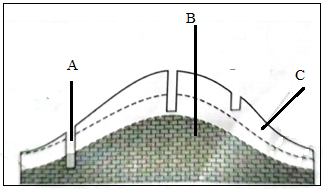
(ii) Explain **three** ways in which plants cause weathering. (6 marks)

(c) Describe how the following processes of mass wasting occur.

* Earth flow (4 marks)
* Avalanche (3 marks)

(d) Explain **four** effects of mass wasting on the environment. (8 marks)

1. (a) The diagram below shows a sectional view of wells sunk into the side of a hill.



(i) Identify the features marked **A**, **B** and **C**. (3 marks)

(ii) Give **three** factors that influence occurrence of ground water. (3 marks)

(b) Explain **three** factors which influence formation of features in limestone areas. (6 marks)

(c) Describe how the following limestone features are formed.

* Cavern (4 marks)
* Clints (4 marks)

(d) You are supposed to carry out field study on a karst landscape.

(i) State **three** reasons why you would need a map of the area of study. (3 marks)

(ii) Give **two** characteristics of karst landscape you’re likely to identify. (2 marks)

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