



MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education

PRE-MOCK – 2022 EXAMINATIONS

312/1

GEOGRAPHY

Paper 1

June 2022 - TIME: 2½Hours

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) What is a weather station? (2 marks)
(b) Give **three** factors that influence wind direction. (3 marks)

2. (a) Name **two** types of tectonic plate boundaries. (2 marks)
(b) Give **three** effects of the movement of tectonic plates. (3 marks)

3. State **four** causes of the decline of the areas under forests in Kenya. (4 marks)

4. The diagram below shows a section of a river. Use it to answer the questions that follow.



- (a) Identify the stage of development of the section of the river. (1 mark)
 - (b) A part from feature marked **R**, give **two** other features formed at this stage. (2 marks)
 - (c) State **three** conditions necessary for the formation of the feature marked **R**. (3 marks)
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5. (a) Differentiate between an aquifer and a water table. (2 marks)
(b) Give **three** problems associated with artesian wells. (3 marks)

SECTION B

Answer question 6 and any other two questions from this section

6. Study the map of Nyeri 1:50,000 (sheet 120/4) provided and answer the following questions.
- (a) (i) Give the longitudinal extent of the area covered by the map. (2 marks)
 - (ii) Give the six figure grid reference of the trigonometric station at Nyeri Hill forest. (2 marks)
 - (iii) Calculate the area of Nyeri forest. Give your answer in square kilometres. (2 marks)
 - (b) (i) What is the bearing of The Ark Lodge from the trigonometric station **120 UT 16**. (2 marks)
 - (ii) Identify **three** man-made features in grid square **7263**. (3 marks)
 - (iii) Give **three** drainage features found in the area covered by the map. (3 marks)
 - (c) Describe the relief of the area covered by the map. (5 marks)
 - (d) Citing evidence from the map, identify **three** social services offered in Nyeri Township. (6 marks)
7. (a) (i) What is a mineral? (2 marks)
- (ii) Describe the following characteristics of minerals:
- Lustre (2 marks)
 - Colour (2 marks)
 - Cleavage (2 marks)
- (b) Describe **three** ways in which igneous rocks are formed. (9 marks)
- (c) Explain **four** significance of rocks to the economy of Kenya. (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) Apart from rift valley, give **three** other relief features formed due to faulting. (3 marks)
- (ii) With the aid of diagrams, describe how compressional forces can lead to formation of a rift valley. (8 marks)
- (c) Students from your class are planning to carry out a field study on an area affected by faulting.
- (i) State **four** reasons why it is important to have a pre-visit to the area. (4 marks)
- (ii) Give **three** reasons why it would be inappropriate to use observation to collect data during the field study. (3 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 labeled 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) Name three components of soil. (3 marks)
- (b) Explain how the following factors influence the formation of soil:
- (i) Climate (4 marks)
- (ii) Topography (4 marks)
- (c) Describe how laterization occurs. (6 marks)
- (d) Explain four ways in which human activities contribute to soil erosion. (8 marks)