



# MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education

PRE-MOCK – 2022 EXAMINATIONS

GEOGRAPHY

Paper 1

312/1

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.

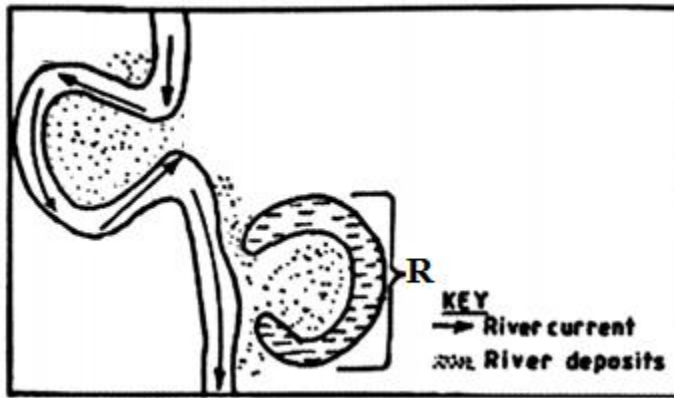
### For Examiner's Use Only

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

## 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)
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 sedimentary 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) A part 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)

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