



MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education MOCK EXAMINATIONS 2021

312/1

GEOGRAPHY

Paper 1

December 2021 – 2hrs 30 minutes

Name: Adm No:

Class:Candidate's Signature:Date:/12/2021.

Instructions to the candidates

- Write your name, admission number and class in the spaces provided above.
- Sign and write the date of the examinations in the spaces provided.
- This paper consists of two sections; **A** and **B**
- Answer **all** the questions in section **A** in the spaces provided after each question.
- In section **B**, answer **question 6** and any other **two** questions.
- Answers **must** be written in the spaces provided at the end of question 10.
- This paper consists of 13 printed pages.
- Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- Candidates should answer the questions in English.

For Examiner's Use Only

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

SECTION A (25 Marks)

Answer **all** the questions in this section in the spaces provided below each question

1. (a) Differentiate between rotation and revolution of the earth. (2 marks)

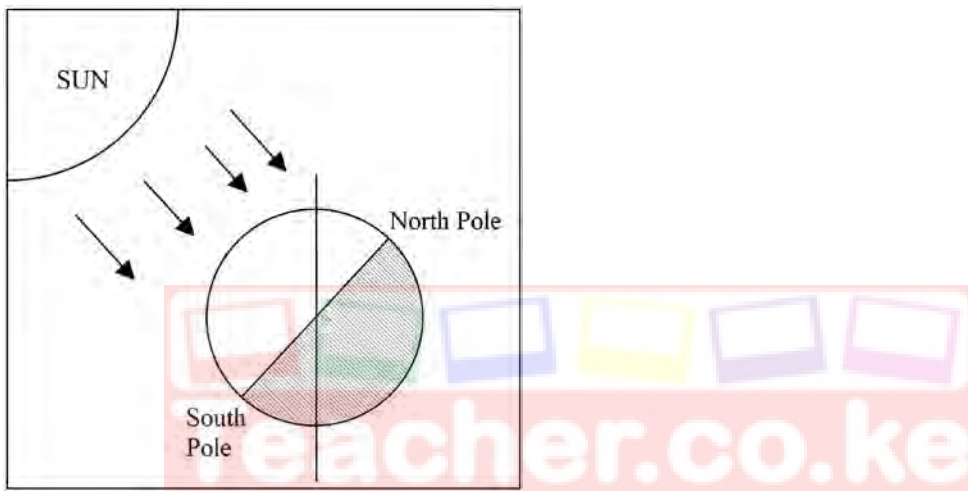
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- (b) The diagram below shows an effect of the rotation of the earth. Use it to answer the questions that follow.



- (i) Identify the effect. (1 mark)

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- (ii) Other than the effect shown in the diagram, give **two** other effects of the rotation of the earth.

(2 marks)

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2. (a) Give **three** life cycles of a volcano. (3 marks)

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(b) State **three** characteristics of a composite cone.

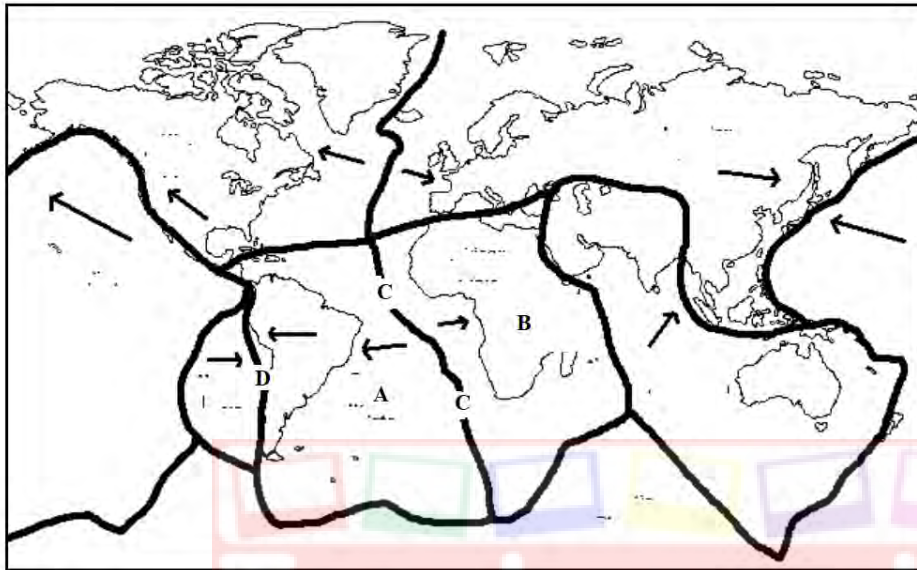
(3 marks)

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3. The diagram below shows major plate boundaries of the world. Use it to answer the questions that follow.



(a) Identify the plates marked A and B.

(2 marks)

A:

B:

(b) Name the boundaries labeled C and D.

(2 marks)

C:

D:

4. (a) Give **three** conditions that favour the growth of coral polyps.

(3 marks)

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(b) State **two** importance of emerged coasts.

(2 marks)

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5. (a) Define a local climate. (2 marks)

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(b) State **three** characteristics of equatorial climate. (3 marks)

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SECTION B (75 Marks)

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

6. Study the map of Kijabe (Sheet 134/3 and Scale 1: 50,000) provided and answer the questions that follow.

(a) (i) Give **two** scales used in the map of Kijabe. (2 marks)

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(ii) Name **three** physical features found in grid square 2699 (3 marks)

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(b) (i) Measure the distance of the dry weather road in the north-western edge of the mapped area.. Give your answer in kilometres (2 marks)

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(ii) Give the approximate position of Kijabe Station in terms of latitudes and longitudes. (2 marks)

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(c) (i) State **two** evidences that show the area covered by the map receives high rainfall (2 marks)

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(ii) Give *two* social functions of the mapped area.

(2 marks)

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(d) Measure the bearing of the trigonometrical station SKP 209 (in grid square 3793) from the point (1° 00' South, 36° 45' East)

(2 marks)

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(e) (i) Draw a frame measuring 14 cm by 10 cm to represent the area bound by Eastings 30 to 37 and Northings 90 to 95

(2 marks)



(ii) On the frame, mark and label:

- Thicket vegetation (1 mark)
- All weather road bound surface (C 68) (1 mark)

(f) Citing evidence from the map, explain *three* factors that influence coffee farming in the area covered by the Kijabe map. (6 marks)

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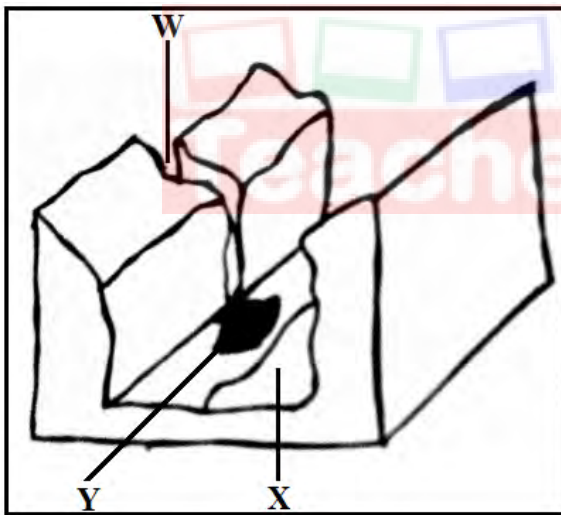
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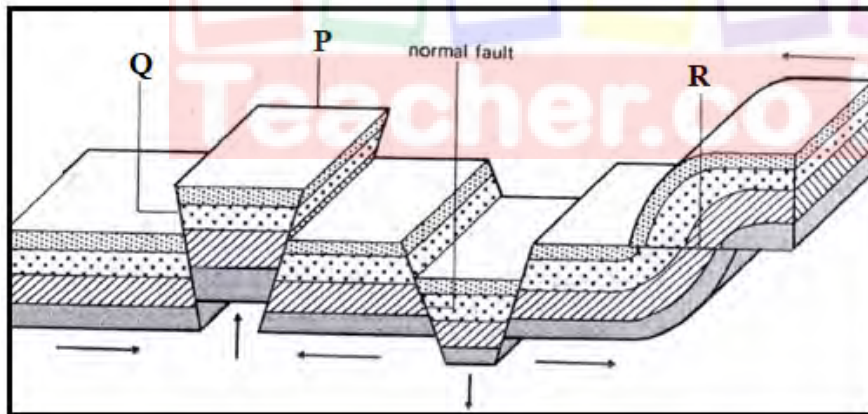
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7. (a) (i) Name **two** areas in East Africa with glaciers (2 marks)
- (ii) Give **two** processes of glacial movements (2 marks)
- (b) Explain how the following factors influence glacial erosion
- (i) Presence of debris (2 marks)
- (ii) Nature of underlying rocks (2 marks)
- (c) The diagram below shows features resulting from glacial erosion in highland areas. Use it to answer the questions that follow.



- (i) Name the parts labeled **W** and **Y**. (2 marks)
- (ii) Describe how the feature marked **X** forms. (4 marks)
- (d) Explain **three** ways in which glaciation influences agriculture. (6 marks)
- (e) Members of your class plan to conduct a field study on glaciated lowland area.
- (i) State **two** reasons why they would likely use observation as a method of data collection. (2 marks)
- (ii) Name **three** features of glacial deposition they are likely to observe during the study. (3 marks)

8. (a) (i) Other than lakes, seas and rivers, give **two** other sources of underground water. (2 marks)
- (ii) Name **two** ways in which underground water may reach the surface of the earth. (2 marks)
- (b) State **four** importance of underground water (4 marks)
- (c) (i) Give **three** conditions necessary for development of karst scenery (3 marks)
- (ii) State **three** reasons for few settlements in karst landscape (3 marks)
- (d) (i) Draw a well labeled diagram of a limestone cave. (2 marks)
- (ii) On the diagram, mark and name the following features:
- Stalagmite (1 mark)
 - Limestone rock (1 mark)
- (e) Describe the formation of the following features:
- (i) Limestone Cavern (3 marks)
- (ii) Uvalas (4 marks)
9. (a) (i) Define the term faulting (2 marks)
- (ii) Name **four** main parts of a fault (4 marks)
- (b) The figures below show some types of faults. Use them to answer the questions that follow



- (i) Name **two** examples in East Africa of the feature labeled **P**. (2 marks)
- (ii) Identify the fault types marked **Q** and **R** (2 marks)
- (c) With the aid of clearly labeled diagrams, describe the formation of a Rift Valley through the compressional forces. (7 marks)
- (d) Members of your class plan to conduct a field study on the section of the Gregory Rift Valley.
- (i) Give **two** ways in which they would prepare for the study. (2 marks)
- (ii) State **three** characteristics of the Great Rift Valley they are likely to observe during the study. (3 marks)
- (e) State **three** ways in which faulting may affect drainage. (3 marks)

10. (a) (i) Differentiate between a lake and a river (2 marks)
(ii) Name **two** sources of rivers in Kenya. (2 marks)
- (b) State **three** reasons why some lakes may contain saline water (3 marks)
- (c) (i) Describe the formation of an oasis. (5 marks)
(ii) Give **three** examples of lakes formed due to faulting in Kenya. (3 marks)
- (d) Describe the following drainage systems
- (i) Superimposed (3 marks)
(ii) Concordant (1 mark)
- (e) Explain **three** economic significance of rivers. (6 marks)



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