**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ INDEX NO. \_\_\_\_\_\_\_\_**

**SCHOOL: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ CLASS: \_\_\_\_\_\_\_\_\_\_**

**CANDIDATE’S SIGNATURE: \_\_\_\_\_\_\_\_**

312/1

GEOGRAPHY

PAPER 1

MARCH, 2019

2¾ HRS

**BURAMU 1 JOINT EXAM – 2019**

Kenya Certificate of Secondary Examination (K.C.S.E)

312/1

GEOGRAPHY

PAPER 1

MARCH, 2019

2¾ HRS

**Instructions to candidates**

1. Write your name and index number in the spaces provided above.
2. Sign and write the date of examination in the spaces provided above.
3. This paper consists of **two** sections: **A** and **B**.
4. Answer all the questions in section **A** in the spaces provided at the end of question 10.
5. Answer **question 6** and any other **two** questions from section **B** in the space provided at the end of question 10.
6. **This paper consists of 4 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.**
8. **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**

*Answer* ***all*** *the questions in this section*.

1. (a) Define the term Rotation of the earth. (2 marks)

(b) State **three** effects of rotation of the earth. (3 marks)

1. The diagram below represents features produced by faulting. Use it to answer question (a)
2. Name the features marked P, Q and R. (3 marks)
3. Apart from the rift valley, name **two** other relief features that were formed as a result of faulting. (2 marks)
4. (a) Give **two** processes involved in Physical weathering. (2 marks)

(b) State **three** factors that influence the rate of weathering. (3 marks)

1. The diagram below represents underground features in a limestone area. Use it to answer question (a).
2. Name the features marked X, V and W. (3 marks)
3. State **two** conditions necessary for the development of the above feature. (2 marks)
4. (a) Give **two** types of igneous rocks. (2 marks)

(b) State **three** uses of rocks. (3 marks)

**SECTION B**

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

1. (a) Using the map of Taita Hills, 1: 50,000, answer the question below.
2. Give the four-figure grid reference of the water reservoir kigombo to the North East of the area covered by the map. (2 marks)
3. Identify the map sheet number of the area to the North of Taita Hills. (2 marks)

(b) Identify the highest and the lowest altitude, in metres, on the map. (2 marks)

1. Measure the distance of the railway line, in kilometres from Easting 34 to Northing 16.

(2 marks)

1. (i) Draw a cross-section from grid reference 320190 to grid reference 380190. Use a

verticle scale of 1 cm to represent 100m. On it, mark. (9 marks)

1. The Hill
2. A river
3. Thicket vegetation

(ii) Determine the verticle exaggeration of the scale of the cross-section. (2 marks)

1. Describe the vegetation found in the area covered by the map. (6 marks)
2. (a) the table below represents rainfall and temperature figures for a town in Africa. Use it to answer the questions that follows: -

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Month** | **J** | **F** | **M** | **A** | **M** | **J** | **J** | **A** | **S** | **O** | **N** | **D** |
| Temp (ºC) | 27 | 28 | 28 | 28 | 27 | 25 | 25 | 24 | 25 | 26 | 27 | 26 |
| Rainfall (mm) | 25 | 38 | 99 | 140 | 277 | 439 | 277 | 69 | 142 | 201 | 71 | 25 |

(b) Explain how the following factors influence climate.

1. Altitude (4 marks)
2. Distance from the sea. (4 marks)
3. Explain **three** effects of climate change in the physical environment. (6 marks)
4. (i) State **three** climate conditions experienced in the Sahara Desert conditions. (3 marks)
5. (a) (i) Define the term soil. (2 marks)

(ii) Give **two** factors that determine soil leaching. (2 marks)

(b) Explain how the following factors influence the soil formation:

1. Parent rock. (4 marks)
2. Biotic factors. (4 marks)

(c) (i) State **three** characteristics of desert soils. (3 marks)

(ii) Give **two** economic uses of soils. (2 marks)

1. You are supposed to carry out a field study of an eroded area.
2. What information would you collect through observation, that would indicate that the area is severely eroded. (2 marks)
3. Identify **three** methods you would use to record the observations. (3 marks)
4. (a) (i) Differentiate between a glacier and glaciation. (2 marks)

(ii) Name **two** types of glaciers. (2 marks)

(iii) Explain three factors that influence the movement of ice from the place where it was

accumulated. (6 marks)

(b) Describe how an arete is formed. (4 marks)

(c) The diagram below shows types of moraines in a valley glacier.

1. Name the type of moraines marked S, T and V. (3 marks)
2. Explain **four** positive effects of glaciations in lowland areas. (8 marks)
3. (a) (i) Identify **two** types of desert surfaces. (2 marks)

(ii) State **three** factors that have contributed to development of deserts. (3 marks)

(b) Describe **two** ways in which wind transports its load. (4 marks)

(c) By use of well labelled diagrams describe how the following feature is formed.

1. Zeugen (5 marks)

(d) (i) Name three major deserts in Africa. (3 marks)

(ii) Identify **two** features formed as a result of wind deposition in arid areas. (2 marks)

(iii) Explain **three** ways in which desert features are of significance to human activities.

(6 marks)