**312/1**

**GEOGRAPHY**

**Paper 1**

**JUNE 2022**

**Time: 2¾ hours**

**KASSU JOINT EXAMINATION**

**Kenya Certificate of Secondary Education**

**312/1**

**Paper 1**

**GEOGRAPHY**

**INSTRUCTIONS TO STUDENTS**

* *This paper has* ***two*** *sections* ***A*** *and* ***B***
* *Answer* ***ALL*** *the questions in section* ***A****. In section* ***B*** *answer questions* ***6*** *and any other* ***TWO*** *questions.*

**SECTION A**

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

1. (a) State **three** reasons why it is important to study Geography. (3 marks)

(b) What is the relationship between Geography and Agriculture? (2 marks)

2. (a) What is weather forecasting? (2 marks)

(b) List **three** elements of weather. (3 marks)

3. Study the diagram below and use it to answer questions (a) and (b) below:



(a) Identify the feature marked **X**. (1 mark)

(b) Describe how the feature is formed. (4 marks)

4. (a) What is karst landscape? (2 marks)

(b) State **three** factors that influence the occurrence of underground water. (3 marks)

5. The diagram below shows lowland glaciated features. Study the diagram and answer questions (a) and (b).



1. What is an outwash plain? (2 marks)
2. Name the features marked **U**, **V** and **W**. (3 marks)

**SECTION B**

*Answer question* ***6*** *and any other* ***TWO*** *questions from this section.*

6. Study the map of Nyeri **1:50000** (sheet **120/4**) provided and answer the following questions

(a) (i) Name the ***two*** districts in the northern part of the map extract. (2 marks)

(ii) Give the latitudinal extent of they are covered by the map. (2 marks)

(iii) According to the marginal information provided in the map, what is the magnetic variation of the area when the map was drawn. (2 marks)

(iv) Calculate the area of Nyeri forest on the map. Give your answer in square kilometres. (2marks)

(b) Describe drainage of the area covered by the map. (5 marks)

(c) Citing evidence from the map, explain ***three*** factors that favours the growing of coffee in Nyeri area. (6 marks)

1. Explain **three** factors that have influenced settlement in the area covered by the map. (6marks)

7. (a) (i) Differentiate between rocks and minerals. (2 marks)

(ii) Describe the following characteristics of minerals.

* Color. (2 marks)
* Hardness. (2 marks)

(b) (i) What are igneous rocks? (2 marks)

(ii) State ***three*** differences between plutonic and volcanic rocks. (3 marks)

(c) Describe the formation of the following rocks.

(i) Mechanically formed sedimentary rocks. (3 marks)

(ii) Chemically formed sedimentary rocks. (3 marks)

(d) (i) Identify the missing type of rocks. (3 marks)

|  |  |
| --- | --- |
| Original rock | Metamorphic rock |
| Limestone | (i) |
| (ii) | Graphite |
| Granite | (iii) |

(ii) Suppose you were to carry out a field study on rocks at the Kenyan coast. State

***two*** reasons as to why you would ask for permission from the school

administration. (2marks)

(iii) What reasons would you give for the widespread of sedimentary rocks at the

coastal plain? (3marks)

9. (a) (i) Name***three*** types of river erosion (3 marks)

(ii) Describe the following river erosional presses.

* Abrasion (4 marks)
* Solution (3 marks)

(b) (i) What is river rejuvenation (2 marks)

(ii) Identify***three*** features that result from river rejuvenation. (3 marks)

1. (i) Name***two*** types of submerged highland coasts. (2 marks)

(ii) State ***two***factors influencing deposition by ocean waters. (2 marks)

1. Explain***three*** significance of oceans to human activities. (6 marks)

10. (a) (i) Differentiate between soil texture and soil structure. (2 marks)

(ii) Apart from living organisms, name ***four*** other components of soil. (4 marks)

(b) The diagram below shows different layers of soil. Use it to answer questions (b) (i), (ii) and (ii)

**W**

**Z**

**Y**

**X**

(i) Name the soil layers **X ,Y** and **Z** (3 marks)

(ii) Give ***two*** main processes of soil formation which takes place in horizon W. (2 marks)

(iii) State ***four***characteristics of soil in horizon X. (2 marks)

(c) Explain how the following farming practices may result to loss of soil fertility

(i) Continuous irrigation. (2 marks)

(ii) Over grazing. (2 marks)

(iii) Over cultivation. (2 marks)

(d) Explain ways in which natural vegetation may prevent soil from erosion. (4 marks)