

312/1
 GEOGRAPHY
 Paper 1
 JUNE 2022
 Time: 2³/₄ hours

KASSU JOINT EXAMINATION
Kenya Certificate of Secondary Education
312/1
Paper 1
GEOGRAPHY

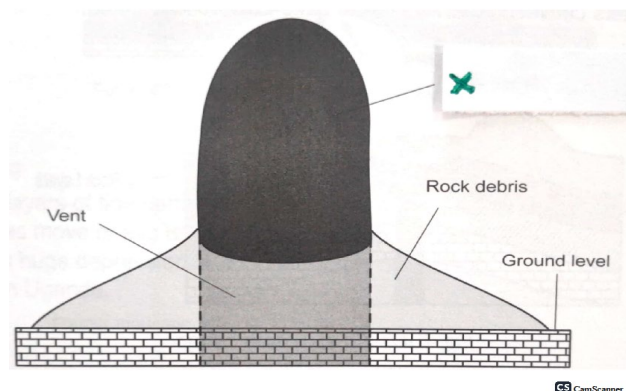
INSTRUCTIONS TO STUDENTS

- 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.

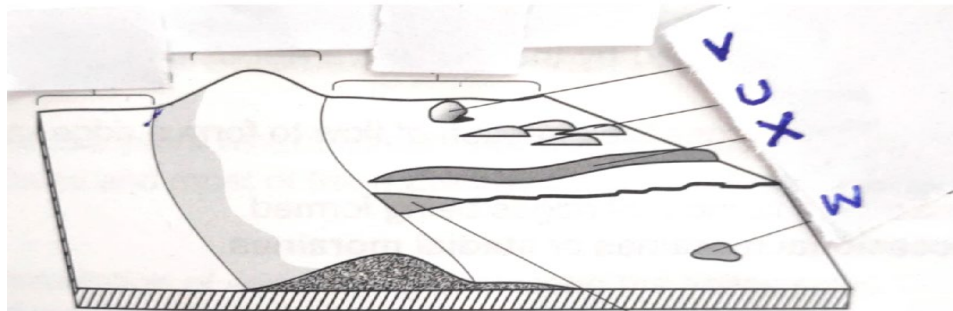
SECTION A

Answer *all* the questions in this section.

- (a) State **three** reasons why it is important to study Geography. (3 marks)
 - (b) What is the relationship between Geography and Agriculture? (2 marks)
- (a) What is weather forecasting? (2 marks)
 - (b) List **three** elements of weather. (3 marks)
- 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).



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

SECTION B

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

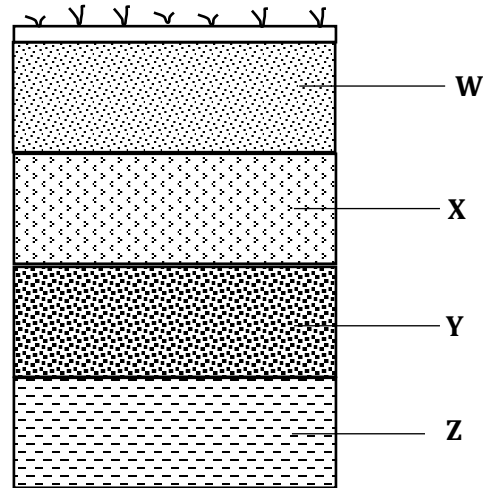
6. Study the map of Nyeri **1:50000** (sheet **120/4**) provided and answer the following questions
- (a) (i) Name the **two** districts in the northern part of the map extract. (2 marks)
- (ii) Give the latitudinal extent of they are covered by the map. (2 marks)
- (iii) According to the marginal information 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)
- (c) 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. (2 marks)
- 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. (3 marks)
- (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 processes. (4 marks)
- 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)
- (c) (i) Name **two** types of submerged highland coasts. (2 marks)
- (ii) State **two** factors influencing deposition by ocean waters. (2 marks)
- (d) 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)



- (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)