**312/1**

**GEOGRAPHY**

**PAPER 1**

**DECEMBER 2021**

**Time: 2 ¾ hours**

**M O K A S A 2 J O I N T E X A M I N A T I O N**

**Kenya Certificate of Secondary Education**

**GEOGRAPHY**

**PAPER 1**

**Instructions to candidates**

* *This paper contains two sections:* ***A*** *and* ***B.***
* *Answer* ***ALL*** *the questions in section* ***A****. In section* ***B****, answer question* ***6*** *and any other* ***TWO*** *questions.*
* *All the answers must be written in the answer sheets provided.*

**SECTION A**

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

1. (a) Define Physical Geography. **(2 marks)**

(b) State **three** importance of studying Geography. **(3 marks)**

2. (a) Distinguish between weather and climate. **(2 marks)**

(b) Give **three** characteristics of ITCZ. **(3 marks)**

3. (a) List **three** sources of sedimentary rocks.  **(3 marks)**

(b) Give **two** examples of mechanically formed sedimentary rocks. **(2 marks)**

4. (a) Describe **two** ways in which biological weathering takes place. **(2 marks)**

(b) Identify **three** benefits of weathering to human activities. **(3 Marks)**

5. (a) What is a river confluence? **(2 marks)**

(b) List **three** processes of river erosion. **(3 marks)**

**SECTION B**

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

6. Study the map of Yimbo 1: 50000 (sheet 115/1) provided and answer the following questions.

(a) (i) Give the latitudinal extent of the map. **(2 marks)**

(ii) What is the highest point of Usengi Hill? **(2 marks)**

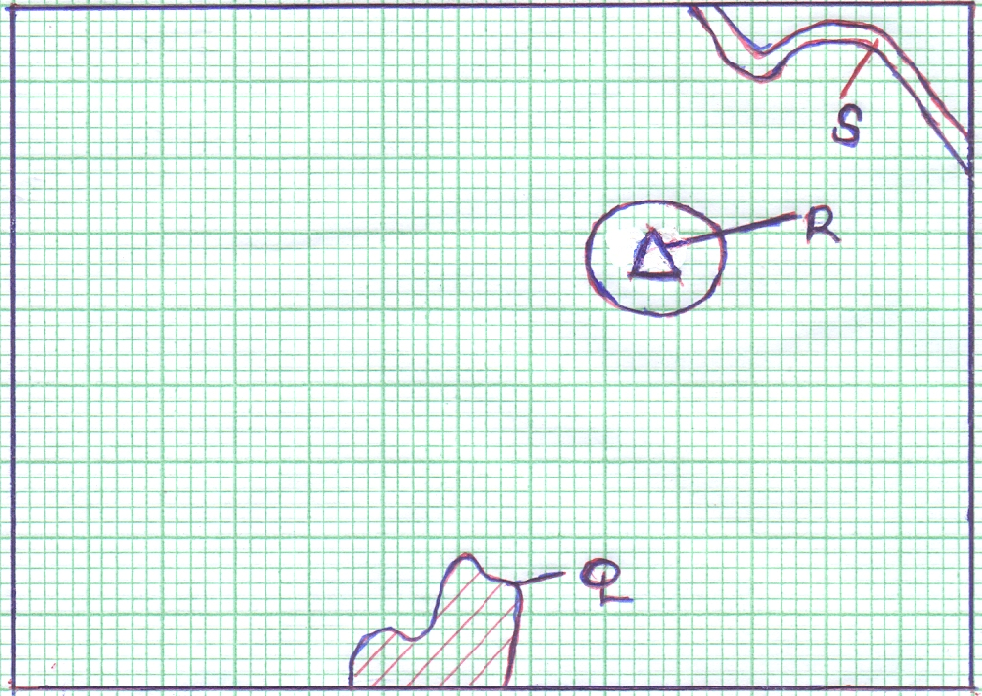
(iii) Measure the length of the provincial boundary to the North West of the area covered by the map. Give your answer in kilometers.

**(2 marks)**

(iv) What is the area of Western Province in the area covered by the map?

**(2 marks)**

(b) The rectangle below represents the area in the map extract bounded by Eastings 30 and 39 and Northings 90 and 96.



Name the features marked **Q**, **R** and **S**. **(3 marks)**

(c) Describe the characteristics of River Yala. **(6 marks)**

(d) (i) Describe the relief of the area covered by the map. **(4 marks)**

(ii) Explain **two** factors which have influenced the distribution of

Settlement in the area covered by the map. **(4 marks)**

7. (a) (i) What is folding? **(2 marks)**

(ii) State **three** factors that influence folding. **(3 marks)**

(b) (i) Apart from over thrust fold, name four other types of rocks.

**(4 marks)**

(ii) With the aid of well-labelled diagrams, describe the formation of an

Overthrust fold.  **(8 marks)**

(c) Explain **four** significance of Fold Mountains to human activities. **(4 marks)**

8. (a) Give **three** ways in which the shape of landmasses may influence the

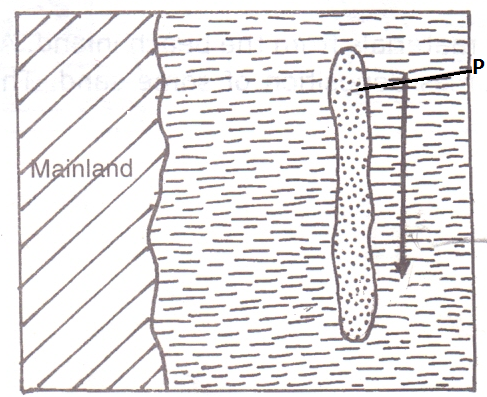
Movement of ocean waters. **(3 marks)**

(b) Distinguish between Constructive waves and the Destructive waves.

**(2 marks)**

(c) Describe **three** processes of wave erosion along the coast. **(9 marks)**

(d) The diagram below shows a wave deposition feature.



(i) Identify the feature labelled **P**. **(1 mark)**

(ii) State **two** factors that favors the formation of the feature named in (i)

above **(2 marks)**

(e) Students from Gedi Secondary School conducted a field study on coastal landforms.

(i) Identify **three** objectives for their study. **(3 marks)**

(ii) Give **three** preparations they made for their study. **(3 marks)**

(iii) Mention **two** methods they might have used to collect information before the actual field study. **(2 marks)**

9. (a) (i) Define underground water. **(2 marks)**

(ii) Explain how the following factors influence availability of

Underground water. **(2 marks)**

* Slope of the land
* Vegetation cover

(b) (i) State **three** conditions that are necessary for the formation of an

Artesian well. **(3 marks)**

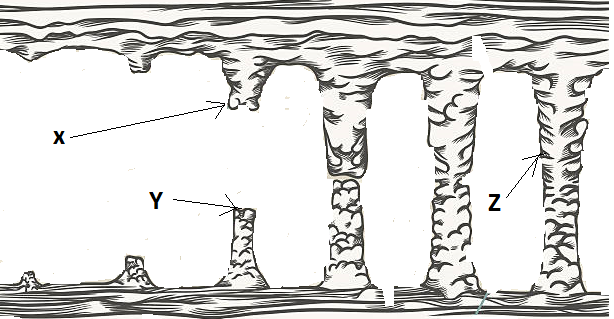
(ii) State **three** problems that are associated with an artesian well.

**(3 marks)**

(c) (i) Differentiate between a Karst scenery and Karst region. **(2 marks)**

(ii)The diagram below shows the underground features in limestone

areas.



Identify the features marked **X**, **Y** and **Z**. **(3 marks)**

(d) Form four students of a school are planning to carry out a field study on a Karst landscape around their school.

(i) Name **two** surface features are likely to identify.

**(2 marks)**

(ii) Give **three** reasons why they needed a working schedule. **(3 marks)**

(iii) Why was it necessary for them to divide into **groups** during their study?  **(3 marks)**

10. (a) What is soil?  **(2 marks)**

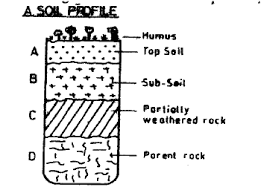
(b) (i) Name **three** components of soil.  **(3 marks)**

(ii) Describe how the following factors influence the formation of soil.

* Topography **(3 marks)**
* Nature of the parent rock  **(3 marks)**

(c) (i) Define soil profile.  **(2 marks)**

(ii) The diagram below represents a well-developed soil profile. State the characteristics of horizon **A**.  **(4 marks)**



(d) Explain **four** ways in which farming practices may lead to loss of soil fertility.

**(8 marks)**