

ITEM 1

The total area is $7\text{km} \times 6\text{km} = 42\text{km}^2$

The area consists of a portion of a lake and wetland which the investor did not buy.

Full squares = 18

Half squares = 20

$$\begin{aligned} & \frac{18 + 20}{2} \\ = & \frac{18 + 9}{1} = 27 \text{ squares} \\ & 27 \times 1\text{km}^2 \\ = & 27\text{km}^2 \end{aligned}$$

Size of the land that the investor bought = $42\text{km}^2 - 27\text{km}^2 = 15\text{km}^2$

If he paid 40 million per km^2 =

$$\begin{aligned} & 15\text{km}^2 \times 40,000,000 = \\ & = 600,000,000 \end{aligned}$$

OR

The area that is free of the wetland is

Full squares = 04

Half squares = 22

$$\frac{04 \times 22}{2}$$

$$= 04 + 11 = 15 \text{ squares}$$

$$= 15 \times 1 \text{ km}^2 = 15\text{km}^2$$

$$\begin{aligned} & 15\text{km}^2 \times 40,000,000 \\ & = 600,000,000 \end{aligned}$$

- Correct calculation will all the steps. 02
- Correct calculation with missing steps 01
- No calculation 00

NB. The steps include;

- Counting the number of full and half square,
- Conversion into km using scale
- Appropriate mathematical calculation.

(a) Reasons why the environmentalists oppose the decision to lease the land to the investor.

- Wanted to preserve the wetlands in the area.
- Rice growing would involve the use of chemicals which would contaminate the water.
- The project was going to affect the lives of aquatic animals in the swamps and lake. Etc.
- Explanation of the reason 01
- No explanation 00

(b) Statement of the problem.

Lack of adequate knowledge about the climate
and factors influencing climate

- Full statement 02
- Partial statement 01
- Wrong/no statement 00

Introduction:

Climate is the average weather condition of an area observed and recorded for a long period of time.

Elements of climate include temperature, rainfall, humidity winds

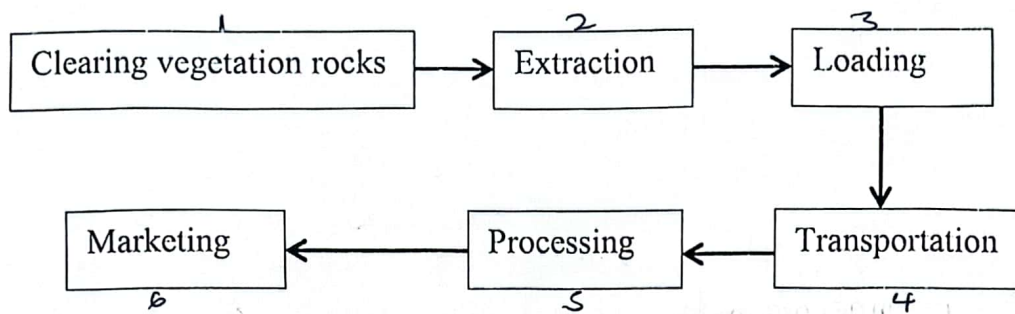
- Relevant introduction 01
- Wrong/no introduction 00

The write up indicating the factors that influence the climate of Lukaya.

- The presence of water bodies such as Lake Victoria, rivers such as kafu indicates that it experience rainy conditions.
- The forests such the one in Sabawali Sub County contributes to rain formation.
- The presence of permanent swamps such as Lwera, Katanga, Lwanswaswa contribute to rainfall formation.
- The water bodies , seasonal and permanent swamps in the area moderates temperatures through evaporation , breeze
- The presence of scrubs and scattered trees in areas such as Bututi, Lutente, Kiti, Kafu indicate that area receive moderate rainfall with a dry season
- Area lies slightly South of equator so average temperatures are generally hot as evidenced by latitude 0 05'S
- The dense population in the South western areas of Nsalu, Bulawula, Lugasa and north eastern areas of Muge Kankobe implies natural vegetation has been destroyed as a result of cultivation, livestock contributing to higher temps.

b) The mining activities may be illustrated with the help of a flow diagram or a text

i) FLOW DIAGRAM SHOWING MINING ACTIVITIES.



ii) The learner may use a context ie

- The activity starts with clearing the area by removing the vegetation
- The mineral exposed is extracted using machines.
- The rock mineral is loaded on the trucks.
- The rock mineral is transported to the factory.
- At the factory processing taken place.
- The mineral is then marketed.

- | | |
|--|----|
| ○ Good illustration with most of the steps | 02 |
| ○ Good illustration with some steps | 01 |
| ○ No illustration | 00 |

2(c) Statement of the problems

Lack of knowledge about the impact of mining activity on the environment by the people who are advocating for the establishment of the mining project.

- | | |
|-------------------------|----|
| • Full introduction | 02 |
| • Partial introduction | 01 |
| • Wrong/no introduction | 00 |

Introduction:

Mining is the extraction of minerals from the ground. The mining process has got both positive and negative effects.

- | | |
|------------------------|----|
| ▪ Correct introduction | 01 |
| ▪ No introduction | 00 |

The people are opposed to the mining project due the following arguments

- Destruction of the natural landscape because leaves open pits after the mineral has been removed.

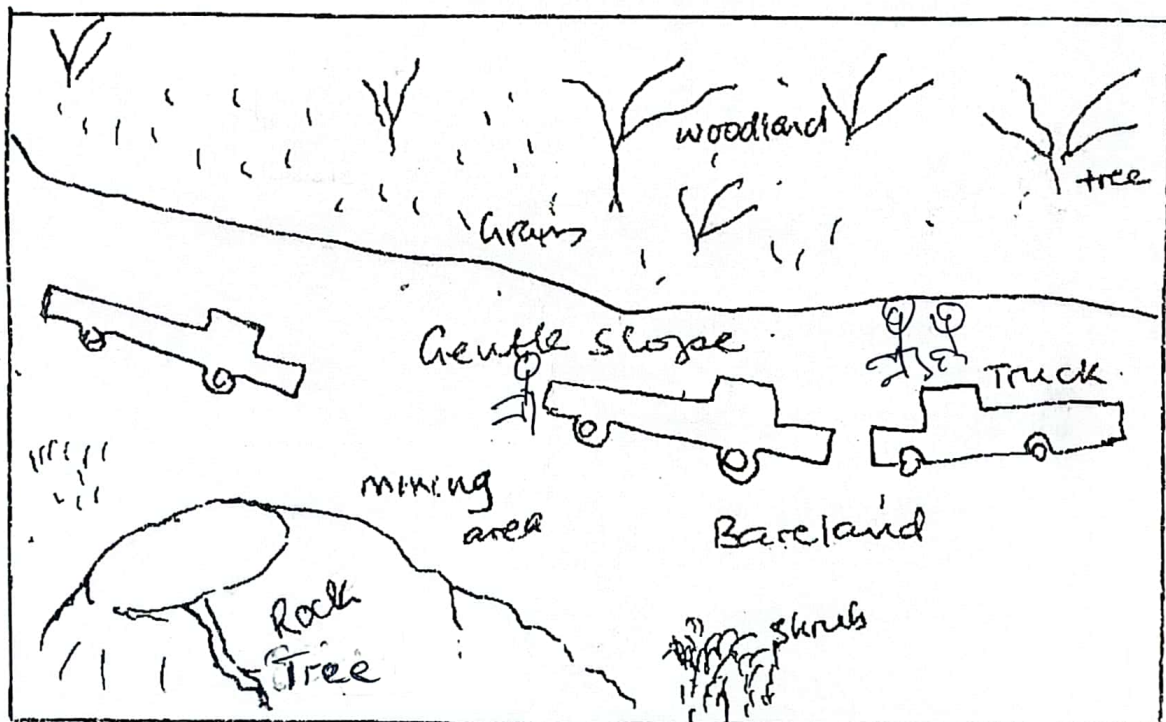
- The presence of the Nabusanke, Lukaya, Mpugwe bound surface road implies that vehicles use the road and they emit hydro carbon gases that create temperature rise.

4 or more factors well explained	03
3 well explained factors	02
2 well explained factors	01
No response/wrong response	00

Statement of the learner's opinion depends on individual learners	01
No statement	00
Total score	10

Item 2

- a) THE LANDSCAPE SKETCH OF THE AREA SHOWN ON THE PHOTOGRAPH SHOWING PHYSICAL AND HUMAN MADE FEATURES.



Correctly drawn sketch with most of the feature,	=	02
Correctly drawn sketch with some features	=	01
Wrong/ no sketch	=	00

The write up should include a description of the highland land forms i.e

- Consists of a series of peaks/
- Hills are separated by valleys some of which are deep and narrow.
- Some highlands have of conical shapes.
- Others form a network of extensive ridges.
- They are either of volcanic origin, folding or faultage landscapes.

o Description of 3 or more characteristics	02
o Description of 1 or 2 characteristics	01
o No description	00

The write up should also include the positive influence of the highlands on people's way of life.

- The gentle slopes of the highlands contain fertile soils to allow cultivation.
- Valley areas provide ideal areas for settlement because of warm conditions.
- The generally experience cool climatic conditions that attract settlement.
- Excellent pastures on the mountain slopes favour rearing of domestic animals such as cattle, sheep and goats.
- The beautiful scenery of the mountain promotes tourism activities such as viewing magnificent scenery, mountain climbing.
- Moderate -- heavy rain fall received on the windward side attracts settlement and agriculture.
- Contain minerals such as copper, cobalt iron are that promotes mining.
- Rocks on the lower slopes are quarried for construction or sold for money.
- Forests on the lower slopes help the residents to carryout lumbering activities.

o Explains 5 or more influences of mountains	04
o Explains 3 – 4 influences of mountains	03
o Explains 1 – 2 influences of mountains	02
o Simply outlines the influence	01
o No response	00

Statement of the learners opinion depends on individuals learners. = 01

ITEM 4.

Statement of the problem

Lack of information about the challenges hindering the effective use of rivers in the area.

- Destroys natural vegetation especially forests which leads to other effects such as climate change.
- Open cast mining leads to flooding of areas causing diseases such as those spread through stagnant water.
- Causes pollution of air through the dust generated during processing activities.
- Mining causes soil erosion in the areas where it is practiced.
- Contamination of water sources such as rivers/streams and wetlands due to the residues that accumulate after the mining process.
- Contamination of soils through the introduction of chemical substance, within the minerals.
- Accumulation of mineral residues alter soil profile.

- The use of explosives causes damage to people houses, animals, crops....

5 or more negative effects of mining well explained 03

3 or 4 negative effects of mining well explained. 02

1 or 2 negative effects of mining well explained. 01

No/wrong response 00

- Statement of the learners opinion depends on the learner ie,
Those involved in mining should take measures to control the negative effects 01
No opinion 00

Item 3

Statement of the problem

The family lacks relevant information about Highlands and their impact on peoples ways of life.

Full statement 02

Partial statement 01

Wrong 00

Introduction

Highlands are areas that rise above the general plateau level (above 1800m A.S.L) they include Drakensberg, Ethiopian Highlands, Cameroon highlands, Kenya highlands Kilimanjaro-----

Correct introduction 01

No introduction 00

- Full statement of the problem 02
- Partial statement of problem 01
- No/wrong problem 00

Introduction

A river is a body of water flowing from its source to mouth in a defined channel.
Rivers are not effectively utilized for transport due to a number of reasons.

- Accurate/relevant introduction 01
- Wrong/no introduction 00

Reasons why the rivers are not effectively used by the people

- Rivers have small volumes of water not adequate for navigation using large vessels.
- Shallow waters within the channel streams hinders use of the rivers for transport.
- Presence of water falls and rapids discourage the use of rivers.
- Braided channels in the lower course of the river limit navigation.
- Floating vegetation such as papyrus, water weed hinders fishing and transport.
- Dangerous wild animals such as Hippos crocodiles scare people who fear to risk their lives.
- Fast flowing water in the upper stage discourages the use of boats for travel
- Excessive pollution contaminates the water and the people fear to use it.
- Associated with disease carrying vectors such a mosquitoes, water snails.
- Seasonal fluctuations in the volume of water poses challenges.
- Most rivers flow through remote and inaccessible areas which hinders their use.

- Explains 5 or more ways in which the rivers affects the people way of life 04
- Explains 3 - 4 ways in which rivers affect peoples way of life 03
- Explains 1- 2 ways in which rivers affect the peoples ways of life. 01
- No. wrong response 00

Statement of the learners opinion depends on the learner ie

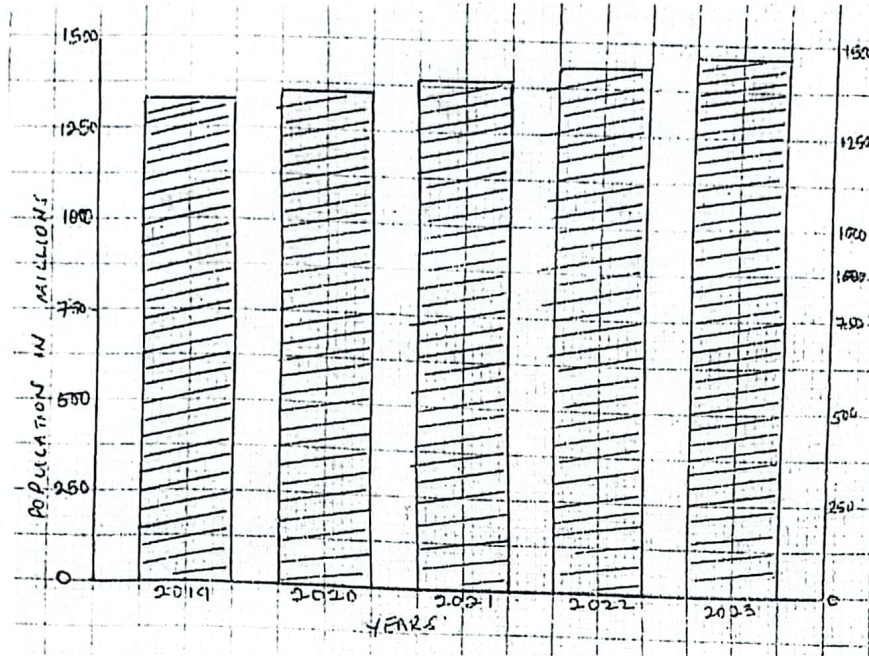
- Both physical and human factors hinder the use of rivers for transport.
- Rivers would be effectively utilized if the challenges are overcome.....

- Relevant opinion 01
- No opinion 00
- TOTAL SCORE 08**

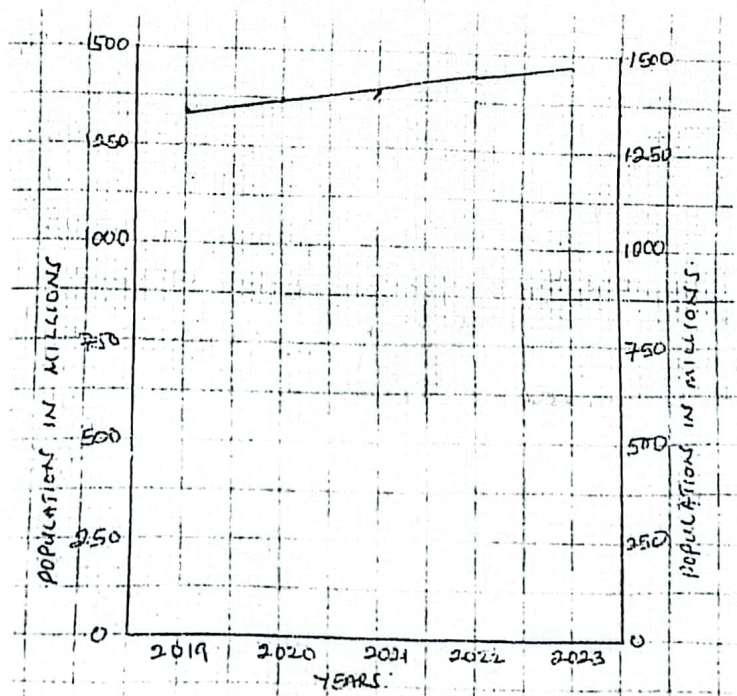
Item 5:

The suitable statistical method may be a bar graph or line graph showing the Africa population between 2019 and 2023.

(i) A BAR GRAPH SHOWING AFRICA'S POPULATION BETWEEN 2019 AND 2023.



(ii) A LINE GRAPH SHOWING AFRICA'S POPULATION BETWEEN 2019 AND 2023.



- Accurately drawn graph with all the feature 03
- Accurately drawn graph with most of the features 02
- Accurately drawn graph with few features 01
- Wrong/no graph 00

b) i) The statement of the problem.

Lack of information about the causes and negative effects of population increase.

- o Full statement of the problem 02
- o Partial statement the problem 01
- o No statement 00

ii) Introduction

Population growth is the increase in the number of people living in an area over time.

This is due to several factors and has both positive and negative effects.

- Correct/relevant introduction 01
- No introduction/wrong introduction 00

iii) The speech shall include the causes of population growth such as.

- The high fertility rate of 6.2 per woman has contributed to increase in population.
 - Low death rates experienced in some countries have contributed to rapid growth of population.
 - Improvement in health services have reduced death rates especially the infant mortality rate.
 - The influence of migration especially the influx of refugees from neighbouring countries.
 - Early marriage that lead to extended reproductive life span.
 - High birth rate is responsible for the growth in population ie Ugandans birth rate is
 - Religious influences which advocate against the use of birth control measures.
 - Lack of adequate knowledge about family planning/failure to use family planning e.t.c.
- o Identifies and explains 5 or more causes of population growth. 03
 - o Identifies and explains 3 4 causes of population growth. 02
 - o Identifies and explains 1 2 causes of population growth 01
 - o Wrong or no response 00

The negative effects of rapid population growth.

- Shortage of land for settlement and cultivation resulting into land fragmentation and low productivity.
- Inadequate social services such as health, education water which leads to congestion around these facilities.
- High unemployment levels which results into high roles of crime.
- Overcrowding in residential and work places leads to spread to diseases.
- Increased government expenditure on the provision of social services such as health education.
- Rural urban migration and associated problems such as slum development.
- Increase rates of immorality for example prostitution.
- Over exploitation natural resources such as kind, water vegetation that get reduced in value.

- Identification and explanation of 5 or more negative effects of population growth 03
- Identification and explanation of 3 - 4 negatives effects of population growth 02
- Identification and explanation of 1 - 2 negative effects of population growth 01
- Wrong/no response 00

Statement of the learners opinion depends on the learners ie population growth if not checked results into problems that hinder progress 01
No opinion 00

TOTAL SCORE 13

Item 6

a) Statement of the problem

The country lacks improved/efficient means of transport and is seeking financial help from China to improve its transport sector.

- Full statement 02
- Partial statement 01
- No/wrong statement 00

b) Introduction

Transport is the movement/transfer of goods/people from one place to another. It involves the use of roads, railways, water and air.

- Correct introduction 01
- No introduction 00