

RWENZORI REGION SESEMAT
END OF YEAR ASSESSMENT 2024
SUBJECT: BIOLOGY
CLASS: S1
TIME: 1 HOURS 30 MINUTES

SCHOOL.....

STUDENTS' NAME.....

Stream.....signatureDate.....

Instructions

- This paper consist of **two** sections **A** and **B**
It has **5** item(s)
Section **A** has **three** compulsory items
Section **B** has **2** items. Answer **one** item
- Answers in section **A** must be written in the spaces provided.
- Answer **four** items in all.

ITEM 1

Your science teacher asks you to explore the garden and observe how different plant parts are specially suited to their functions. As you examine the plants, you notice some interesting features; thick leaves of bryophyllum with notches at the edges, swollen leaf bases of the onions, most leaves of plants are green in colour, plant leaves and brightly coloured flowers spaced on branches of a hibiscus plant, swollen roots on the base of cassava plant, and pods of beans with seeds.

Task:

- a) Explain the suitability of the different plant parts for the functions.

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- b) Explain how important it is to a farmer knowing the suitability of the plant parts to their functions.

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Item 2

S1 students of Kasau S.S had a field study in the nearby forest reserve, observing various insects. They saw termites carrying soil particles, butterflies moving from flower to flower, grass hoppers eating vegetation and dragon flies hovering over a water pond.

Task

- a) Why should each of the insects above be preserved in the environment?

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- b) Explain how the insects above contribute to the process of pollination

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Item 3

A new respiratory tract viral infection has broken out in your community, people are panicking due to the high death rate, stigmatization of infected people. Some want to migrate to other areas while others want those infected to be confined in one area. The infected people are showing signs like loss of taste, sneezing and chest pain. You are among the scientists studying about this new viral infection.

Task

- a) Explain how the virus is transmitted to the people in the community.

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- b) Explain to your community members how they can prevent the spread of the virus so that they can stop panicking

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SECTION B

Answer ONE from this section

Item 4

Sam's father is a doctor at Ebenezer Hospital. One day Sam requested his dad to go with him and see how he does his work. Sam was allowed to observe a human body under a powerful microscope and he saw different structures; a single muscle cell, a group of muscles cells, muscle tissues being part of an organ which is the arm and finally saw the organ was part of a larger system that includes other organs.

Task

- a) Relate the structure that Sam observed to their functions in the body
- b) How would you make sure that each of those structures in your body functions properly?

Item 5

A young scientist exploring a forest, during his adventure came across 5 different animals; a frog that lives both on land and in water and lays eggs in water. Butterfly that starts its life as a caterpillar and goes through a big transformation

A snake that slithers and has a dry skin

A monkey that is covered with fur and feeds its young with milk

A weaver bird covered with feathers.

Task

- a) Using what you know about animal classification, group the above animals into their phyla and classes with reasons.
- b) Explain how each of the above organisms is adapted to live in its environment.

END