

**RWENZORI REGION SESEMAT
END OF YEAR ASSESSMENT 2024**

SUBJECT: BIOLOGY

CLASS: S2

TIME:2 HOURS

SCHOOL.....

STUDENTS' NAME.....

Stream.....Signaturedate

Instructions

- Answer three questions in section A
- Section A is compulsory (3 items) in the spaces provided
- Section B with three items to answer only 2

The paper has 6 items

Answer in total five items

Choose two in section B

Item 1

Recently occurred a severe hail storm in a certain village which caused most crops plants to lose a lot leaves and flowers, roots and stems of some crops were also severally damaged

As a result the residents of the village are complaining of very low yields of both seed crops such as beans as well as tuber crops like Irish potatoes and cassava.

Task

- a) Mention the processes affected by the hailstorm

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- b) Explain how the hail storm affected the processes mentioned in (a) above.

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- c) Explain to the residents of the village why their harvest was poor.

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Item 2

Ritah's mother of about 4 years rarely brushes her teeth and has never visited a dentist. Recently she noticed a persistent bad breath and bad taste in her mouth, bleeding of gums when she brushes, increasing tooth sensitivity when taking / eating something cold or hot. She is worried that something might be wrong but she is not sure what the problems is or how to address it.

Task

- a) Explain the possible causes of the symptoms challenges that Ritah's mother is facing.

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- b) Explain how Ritah's mother can overcome these challenges

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Item 3

A healthy worker visits your school to give a talk about HIV/AIDS. He explains that HIV is a virus that attacks the body's immune system which is the body's defense against infections.

The health worker shares a story of young man who was diagnosed with HIV. He has been partying a lot, involved with peer groups that drink alcohol a lot and behave recklessly.

Overtime he noticed that he was getting sick more often; even with illness that most people recover from easily like the common cold

Task

- a) Suggest possible ways how the young man could have contracted HIV.

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- b) What are the effects of HIV on the young man's health overtime if left untreated

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- c) How can the young man be supported ?

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SECTION B

Answer two items

Item 4

River Mpanga flows and eventually reaches large water bodies. People around it often leave plastic waste like bags, bottles and wrappers near its banks and some of it ends up floating down stream. Sometimes the surrounding villages experience floods and water borne disease. When plastics reach large water bodies, they also severely affect its environment like light not penetrating into the water some of these plastics overtime break down into tiny pieces called microplastics which is dangerous to both wildlife and humans.

Task

- a) Explain the cause of the problems due to poor plastic disposal in the above.
- b) As a community, what can be done to reduce plastic waste and the problems due to its poor disposal?

Item 5

Mr. Onyango had a piece of land with a lot of vegetation which he cleared three years back to grow crops on a large scale. In the first season, he had high yields, he continued growing the same type of crop season after season, gathering garden refuse and burning it during preparation for planting, applying an artificial fertilizer excessively.

After three years using his piece of land for crop production, the yields became low and he started making losses.

Task

- a) Explain to Mr. Onyango the cause of the poor harvest
- b) Explain to him what he should do to overcome the challenges of poor yields in the coming seasons.

Item 6

In most towns, cities and trading centres in Uganda many of the people feed on fried food like chips, pizza foods rich in carbohydrates like rice, posho. They take most of their time seated selling items in shops, late in the evening drive off in their cars to their houses, this has resulted into stress, overweight, obesity, difficulty in breathing, increasing cases of high blood pressure.

Task

Explain to them the possible causes of the health challenges they are facing and advise on possible measures.

END