

KIYALA HIGH SCHOOL

MID-TERM ASSESSMENT TEST 2025

BIOLOGY

S.3

Time: 2 Hours

INSTRUCTIONS:

- The paper contains **six** items and two sections A and B
- Section A is compulsory.
- Section **B** has two **parts I and II**, chose **one item** from each of the **parts I and II**
- **ALL the** items carry equal marks.

Section A

Item 1

A gardener is concerned about the health of their tomato plants, which are showing signs of poor growth and yellowing of leaves and some leaves have red tips. They suspect an issue with the plant's ability to take up, transport and unitize essential nutrients.

Task

- a) Identify the essential nutrients that are possible causes of this problem.

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- b) Explain how the transport system of plants can result into nutrient imbalance.

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- c) Explain to the farmer the steps he can take to ensure proper growth in his plants.

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Item 2

Jorem, a S.3 student from Kiyala High School observed that his grandmother's garden had different types of seeds sprouting. He noticed that plant A sprouted differently compared to plant B



A

B

Task

- a) Identify the plant process that he observed that led to the sprouting of the seeds as shown above.

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- b) Help Jorem to know the conditions necessary for the sprouting of seedlings in his grandmother's garden.

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- c) Briefly describe two distinct patterns of seedling emergence that you expect Jorem to observe in his grandmother's garden (giving two examples of plants for each pattern)

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Section B

Part I (choose only one item)

Item 3

Malaria has become so common with people living near water bodies. The government has brought YEKO insecticide to kill mosquitoes but preliminary research shows that YEKO kills termites, bees and butterflies. The ESIA group, an environment advocacy group has opened up a campaign against the use of YEKO.

Task

Write an article that you would send to the chief editor to support the campaign of ESIA group
(15 scores)

Item 4

Many farmers practicing farming in hilly areas in Uganda especially in Kigezi regions are facing many challenges in their farmlands due to increased washing of top soils to low lying areas especially during rainy seasons. This has greatly affected productivity in such areas.

Task

As a soil scientist, explain to this farmer the likely causes of the above problem. Advise them on the possible measure that can be used to overcome the above problem.

Part II (choose only one item)

Item 5

In a rural village in west Nile, a mother is concerned about the health of her 2 years old child, who is malnourished and frequently ill, shortly after weaning him. The family's daily meal includes posho and raw vegetable which they eat once a day. The child is energetic but he is not gaining weight.

Task

- a) Explain to the mother why her child is not going weight and suggest recommendations.
- b) Describe the different processes that occur in the child's body to enable him to be energetic.

Item 6

Having been in a company of chain smokers for two years, David a teenager developed dry cough and serious chest pain and got hospitalized after coughing blood. The medical report suggested that Daniel was a smoker which he utterly denied and so the doctor put him on serious medication. During his course of treatment, the doctors discovered that his blood couldn't load enough oxygen a reason why he was very weak.

Task

Mention Denial's health problem and clearly explain how his body contradicted it. Advice Daniel on how he can recover from the problem discovered.

SUCCESS