

Names:

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ITEMS	LEARNERS SCORES
Item 1	
Item 2	
Item 3	
Item 4	
Total Scores	

KIYALA HIGH SCHOOL
MID TERM TWO ASSESSMENT TEST 2025
BIOLOGY
S.3

Time: 2 Hours

INSTRUCTIONS:

- The paper contains two sections A and B with seven items.
- Section A is compulsory.
- Section B contains two parts I and II, Attempt **only one** items from each part in section B ➤
Any **additional item** attempted **will not** be scored

SECTION: A

Item 1.

Cassava plant, *Manihot esculenta* produces root tuber which is the major source of flour and carbohydrates in many families in Uganda due to its low requirements it requires to grow, its high productivity and tolerance to dry conditions. During a research study in Tema village, it was noted that the major cause of low cassava productivity is infection with a viral disease, Cassava mosaic which causes twisting of leaflets reducing leaf area exposed to light and amount of food manufactured by the plant.

Task.

a) State the:

i. Kingdom

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ii. Class

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iii. Order

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iv. Species of the cassava plant

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b) Describe how cassava mosaic is spread and the ways farmers in your community are preventing its spread and effects. (07 marks)

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Item 2.

Okello, an S.1 boy normally wakes up very early in the morning and rushes to the kitchen without brushing his teeth to eat his left-over food before going to school. His teeth have turned yellow and developed holes. When he visited the dentist, he was told his teeth are special structures which assist in digestion of food and therefore need to be kept clean by brushing.

Task.

a) Describe the role of teeth in digestion of food. (3 marks)

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b) Explain the consequences of poor dental hygiene.

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c) State the way of keeping our teeth healthy.

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Item 3.

Tracy was not feeling well and went to the hospital. A blood sample was prepared on a blood smear. The smear was viewed under the microscope by the lab technician. Tracy developed interest in observing the slide and tried to identify unknown dots that were on it.

Task.

a) State the components of blood that are found in blood smear. (3 marks)

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b) State two functions of each of the components stated in (a) above (3 marks).

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c) State two adaptations of each of the components in (a) above to their functions. (3 marks)

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SECTION B PART I

Item 4.

As a result of a civil war in the neighboring country, many people entered into Uganda as refugees. The local authorities decided to settle them on a piece of land, part of which was a forest reserve next to a swamp and a river. Due to large influx of people coming away from the war, the trees in the forest reserve and about the river bank were cleared to expand the campsite. Latrines, water and polythene bags were disposed into the river, people also constantly burnt plastics and wood for charcoal. This resulted in respiratory diseases, outbreaks of dysentery, flooding in the camp and loss of biodiversity.

Task.

- a) Explain how the environmental challenges mentioned above.
- b) Explain to the local authorities why it is important to conserve the environment.

Item 5

In villages of Kumi, Swamps have been cleared for cattle farmland and sand mining. The Resident District Commissioner (RDC) organized a community sensitization campaign on sustainable use of natural resources in swamps. Unfortunately, Raphael, a resident of the area, arrived late and only heard the concluding remarks, "..... I kindly, request everybody to use our natural resources sustainably."

Task.

Explain to Raphael the environmental problems addressed by the RDC and how they can be solved. Explain why the village should conserve the natural resources in the swamps.

PART II

Item 6

A village family lacked a dustbin for the previous years and dumped wastes in the garden. After some years their land became less productive and the family children suffered. This year, one of the family children reached Secondary school and learnt that plastics and metals in rubbish are not decomposed by organisms and lead to reduce soil aeration causing death of soil organisms reducing the soil infertility. On returning home, he decided to dig a rubbish pit and later their harvest increased. The child was appreciated and asked other things they study. She only said "Thanks to Biology." **Task.** Explain what the child meant.

Item 7.

Karim has been smoking for the past 20 years, feeds on a lot of fatty foods and rarely brushes his teeth. Recently he started experiencing complications such as tooth decay, difficulty in breathing and trouble in moving his limbs or one half of his body. Following a visit to hospital, medical examination further revealed that Karim was diagnosed with high blood pressure. Doctors advised him to change his lifestyle but he has no idea how to do this. **Task.**

- a) Explain how Karim's lifestyle has affected the functioning of his body.
- b) Advise Karim on how to manage his health condition.

***** WISHING YOU SUCCESS *****