

CANDIDATE'S NAME:.....

SIGNATURE

<i>Index number</i>							

553/1

Biology

Paper 1

2 $\frac{1}{4}$ hours



Apex Examination Council

PRE-ENTRY EXAMINATIONS SET TWO 2026

Uganda certificate of education

BIOLOGY

Paper 1 (Theory)

2 hours 15 Minutes

INSTRUCTIONS TO STUDENTS:

- Attempt all items in section A and only two from section B
- Follow instructions, otherwise you will be punished
- Please, number your work properly

(a) How has Kennedy’s involvement in his group disorganized his family?

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(b) Explain why Kennedy is now struggling to read and how his eye glasses were helping him to read.

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(c) What should be done in society to overcome challenges related to those faced by Kennedy and his group?

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SECTION B

Answer any two items from this section

Item 3

A 50-year old man of blood group AB smokes cigarrates daily, one day on his way back home he got an accident losing a lot of blood. When he was rushed to the hospital, he had difficulty in breathing and the doctor also found out that he has a damaged liver. The doctor

advised that he should undergo blood transfusion in addition to other treatment. His relatives were contacted to donate blood. Below are blood groups of the relatives and their conditions.

Relative	Blood group	Condition of HIV
Daughter	A	Positive
Brother	AB	Negative
Mother	B	Negative
Nephew	O	Negative

Task

- Explain how his lifestyle and accident affected the functioning of his body.
- Suggest with reasons the relative(s) which could donate blood to him.

Item 4

Kafeero, a S.2 learner whose family settled in Namanve Industrial area, after setting off from their village where they had land wrangles with other family members. He has been smoking since he joined a certain peer group in this area. Recently, he was having difficulty in breathing and sometimes he produces a wheezing sound when breathing out. His mother and young brother do not smoke but they have the same complications like Kafeero. These suspect their clan members in the village to be sending “witchcraft” to kill them. His young brother has a strong feeling that none of their relatives is behind their current challenges, which he couldn’t defend.

Task

- As an educated biology learner, help Kafeero’s family understand how they contracted their health challenges, in order to be convinced that witchcraft has nothing to do with their them.
- Advise them on what they can do to overcome those challenges.

Item 5

Mutesi is one of the famous athletes in Uganda who participated and represented the country in common wealth games in Russia. In one of the Olympics games before the competitions began. Mutesi took a meal rich in carbohydrates 30 minutes to the race.

At the start of the race, she was observed splinting very fast but towards the end, her speed reduced, heart beat and breathing rate increased and had a lot of muscular pain in her legs. After the race, she rested for 20 minutes and stopped and stood up to jubilate her success.

Task;

- Describe how the carbohydrates were metabolized in her body to enable her win the race.
- Explain the challenges her body experienced towards the end of the race
- Explain how her body managed to overcome the challenges to enable her jubilation after the race.

END