### KIYALA HIGH SCHOOL

## END OF TERM ONE ASSESSMENT TEST -2024 BIOLOGY

Paper 1 Theory

**S.4** 

#### 2 Hours

#### **INSTRUCTIONS**

- This paper consists of four examination items.
- Answer all the items in this paper.
- ➤ Use of illustrations and drawings will earn you more scores.

#### Item 1

Opolot has a child who looks malnourished with pale eyes and generally looking anaemic. On consultation with the doctor, the child was recommended for a blood transfusion. However, the doctor advised Opolot to first take the child to the laboratory for medical blood screening. This recommendation upset Opolot and he got scared of the process.

# Task a) How would you advise Opolot about the importance of a blood screening test before a transfusion of blood is done. ..... ..... ..... ..... ..... ...... ..... ..... b) Outline the benefits and risks involved in a blood transfusion. ...... ..... ..... .....

Item 2
Mr. Nsariba's cassava garden was invaded by the neighbours goats at the time of
tuber formation. The owner of the goats has refused to compensate Mr. Nsariba who
is worried about the poor yields.
Task
a) Identify the plant structures affected by the goats.
b) Explain how the goats affected the process in the cassava plants.
a) Why should Mt Namiba be assured as well if the assess aloute were ship to
c) Why should Mt. Nsariba be compensated even if the cassava plants were able to grow again.
grow again.
Item 3 A boy of primary four (4) was riding a bicycle, but all over a sudden knocked a stone and fell off. He however sustained some cuts and injuries on his skin that caused bleeding.  Task
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<b>b)</b> After a short while the bleeding stopped and there was a blood clot covering the wounds. Explain the process of formation of a blood clot on the wounds
•••••••••••••••••••••••••••••••••••••••
c) Give any benefits of a blood clot to the wounds.
Item 4 In preparation for an inter-house competition, Chesang a 40 kg female athlete ate a meal containing 470g of carbohydrates in the morning. She believes the meal will help her perform better during the competition. However, her young brother does not seem to understand how the meal will contribute to Chesang's success. Chesang finally won the competition but experienced muscle cramps. She rested for 20 minutes and returned home walking, but the brother wondered how she still had the strength to walk home after the competition. The recommended daily carbohydrate intake of a 40 kg female athlete is (250-480 g)  **Task** Explain to Chesang's brother the processes that the meal she ate went through to enable her with the race, be able to come back home and how her body regained the normal state.

Item 5 While attending a briefing by medical personnel at your school about healthy living, the doctor emphasized that excessive consumption of fat rich foods can reduce delivery of materials to tissues. This statement left many students wondering how this is possible.  Task
Prepare a chart to make your class mates understand the doctors statement.