



EAGLE'S NEST SECONDARY SCHOOL - KAMPALA

MID TERM II ASSESSMENT 2023

BIOLOGY

SENIOR ONE

Time :2Hrs

NAME:.....STREAM:.....

SINATURE:.....

Instructions.

Answer all questions in the spaces provided.

Answer all questions in this section in the spaces provided.

1. A strange flying pest has attacked crop farms in Bweyogerere. The pest destroys crops by injecting them with a fluid, which dries them up. Residents have suggested to form a team of specialists to fight the pest and its effects.

- a) Identify the braches of Biology from which a team of specialists must be obtained. (03 marks)

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- b) What is the role of each specialist you have identified in (i) above. (03 marks)

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2. What would happen to a muscle cell if the following structures stopped working? (04 marks)

a) Nucleus

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b) Mitochondrion

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c) Cell membrane

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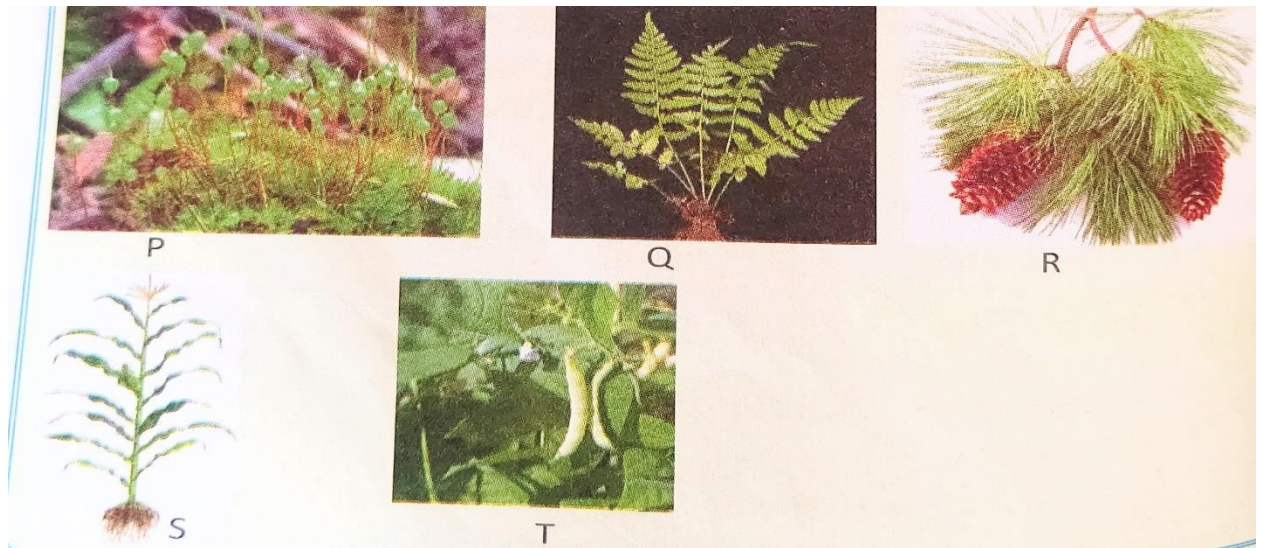
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d) Cytoplasm

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3. The organisms shown in the *figure 1* belong to the same biological grouping.



- a) To which grouping do the organisms belong? (01 mark)

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- b) Why do they belong to that group? (03 marks)

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- c) Give two differences between the organism **S** and **Q** in *figure 1* above.

(02 marks)

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4. Mampi, a senior one student was tested and found with HIV/AIDS. His best friend Kagoda now fears to play or sit next to her because he thinks that he will also contract HIV/AIDS.

a) Do you think Kagoda is right? Why?

(02 marks)

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b) As a friend to both, what advice can you give Kagoda?

(03 marks)

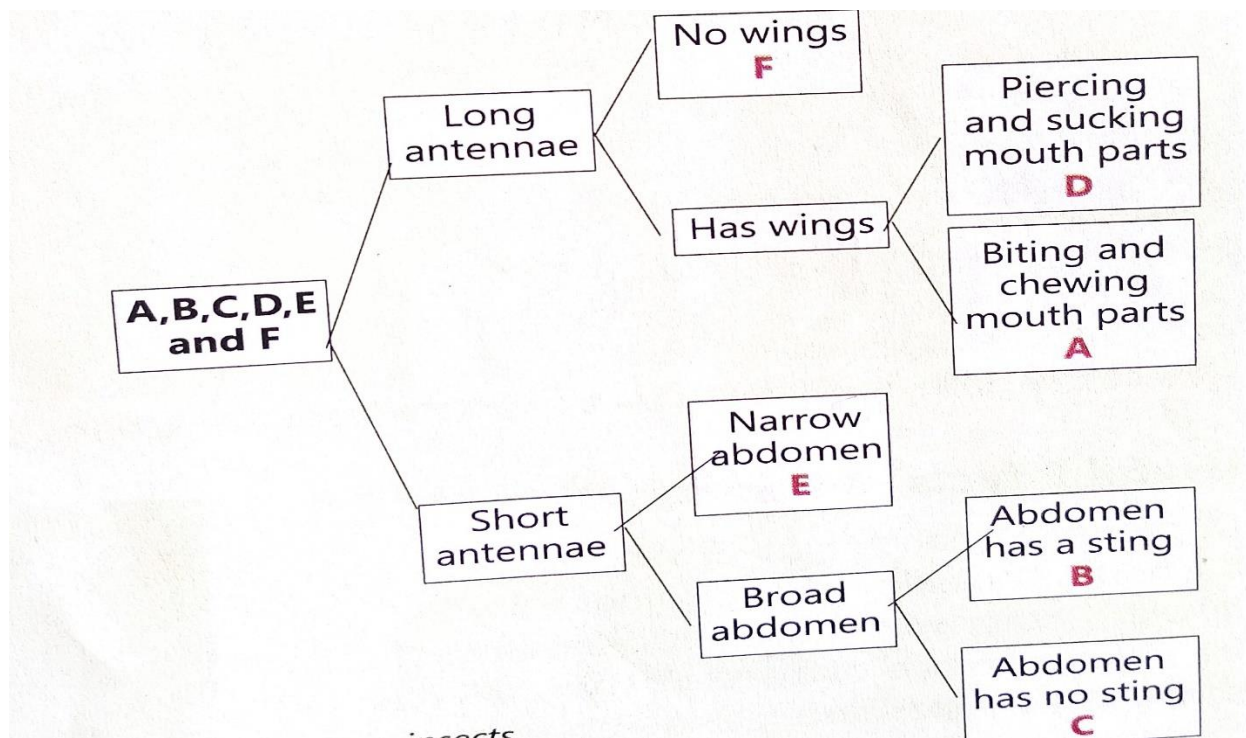
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5. **Figure 2** shows a flow chart used to identify insects.



Use the flow chart to identify which of the insects; cockroach, bee, housefly, mosquito, butterfly and termite are represented by letters A to F.

(06 marks)

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6. Closely look at the following scientific names; *zea mays*, *loxodonta Africana*, *Lantana Camara*, *Mangifera-indica*. State how best these names can be written following the binomial nomenclature system. (04 marks)

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7. On her way to school, Cathy came across an exciting organism resting on a tree branch. She could not identify it but said it had fur all over its body, it was eating a banana with different shapes of teeth in its jaw.

a) Help Cathy identify the organism using its kingdom, phylum and class.

(03 marks)

Kingdom

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Phylum

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Class

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- b) Give two examples of organisms that belong to the same class as the one Cathy saw. (02 marks)

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8. A bee, mosquito, termite, cockroach and housefly all belong to class *insecta*.

- a) Outline the characteristics of organisms in class *insecta*. (03 marks)

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- b) Give five economic importance of insects to people in your community. (05 marks)

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c) Apart from class insect, state any other two classes in phylum
Arthropoda. (02 marks)

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END