

UGANDA ADVANCED CERTIFICATE OF EDUCATION

S.5 BIOLOGY MID TERM II 2025 ASSESMENT

TIME 2 HOURS

NAME.....

STREAM.....SIGN.....

INSTRUCTIONS

- ❖ The paper is made up of two sections A and B
- ❖ Section n A is compulsory
- ❖ Attempt only one from section B

Item 1

The fluid mosaic model was proposed by Nicholson to explain the behavior of cell membrane . This concept was explained by the researcher to the S.5 Biology class of Kingsway way ss-igayaza . The learner went on complaining about the model and the way they did not understand the explanation.

Task

As student who studied this concept and understood well. Help to explain to explain it to the class

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Item 2

Mr John was feeling hungry and his friend advised him to feed on beans since they contain proteins , as they are made up of amino acids which play significant roles in the body . further research was found out that amino acids behaves as buffers .. , this left john unawre with little knowledge about the meaning of statement

Task

As a biology student ,

- a) explain to mr john on how the meal ate could behave as buffers

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(b point out the role of his meal in the body

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SECTION B : attempt only one of your choice

Item 3

Students at Kingsway secondary school moves around the school compound and found different plants surviving in the shade with yellow leaves , however they could make up their food which left many asking themselves how this could be possible They have come to you for guidance

Task

Explain how these plants could make up their food starting from the time they received sunlight energy

Hint.... Emphasize mostly on C3 plants

Item 4

John was preparing tea in his room as he tried to pick saucepan he accidentally fallen down which made hot water to pour on his legs . After some time , he had pain , heat and swollen on that localized part . He later felt fever in entire body . on visting the hospital the medical doctor gave him first aid for improvement of his life.

Task

Inform Mr John on the importance of above events in his body. Further explain how phagocytes were able to reach the tissue damage where heat had occurred.

“The biggest mistake in life is to think we still have time.”