

**UGANDA ADVANCED CERTIFICATE OF EDUCATION**  
**S.5 END OF TERM TWO ASSSMENT ASSESMENT 2025**  
**TIME 2 HOURS**

**NAME.....SIGN.....**

**SECTION A Attempt all**

**ITEM 1**

Beans are preferred by most institutions to be fed on by workers and the people ; During the lesson of digestion and assimilation of beans in the body ; the teacher said that beans are made up amino acids which make up polypeptides ;This left most students confused about the statement.

Task

a) As a student of biology;

i) Describe how the amino acids in the beans formed the polypeptides?

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ii) Help students to describe the structure of amino acids.?

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lii) Further, illustration the biological function of beans in the body?

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**ITEM 2**

A boda boda man was riding a motorcycle, he accidentally fallen down and broken his leg, it was found that the long born was damaged in his leg, on further analyses the external ear was also injured resulting into bleeding.

## Task

- a) Identify the type of tissues that were affected

[illegible]

- b) Outline the examples of tissues in (a) above.

[illegible]

- C) Explain the structure of the long bone that was injured.

[illegible]

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d) Suggest the difference between the tissues in the external ear and those in long bone.

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**SECTION B : *ATTEMPT ONLY TWO***

**Item 3**

During the competition, Ronald involved in the vigorous activity , unfortunately the playground was near the murrum road where he could inhale some dust particles. This later he was surprised to find having no flue as he expected. on analysis he thought that the cilia in his nose prevented entry of dust into his nose.

Task

- i) Help Ronald to understand the distribution of the cilia as described in scenario
- ii) Explain the structural adaptation of different epithelia tissues in Ronalds body besides those in scenario

#### **ITEM 4**

During the athletics competition, Ronald S.5 student at Kingsway SS Igayaza kakumiro district experienced different physiological effects in his body such as increased breathing and heart beat . This made him ask his friends how this could be controlled, the friend advised him to visit the nearby hospital for healthy check up.

#### **Task**

a) As a learner of biology

i. Help Ronald understand the role of medulla in the control of heartbeat during the athletics

ii. Inform Ronald the changes that occurs to the heart rate in the circulatory system during athletics competition.

**END**

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

**By TR. MUSINGUZI IBRAHIM**

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