

ST.PETERS H.S KAJJANSI**End of Term III Examination****2024*****Uganda Certificate of Education*****S.1 Biology****Paper one****Theory****Time: 2 Hours****INSTRUCTIONS**

- The paper consists of two *sections* A and B.
- There are **six (6)** items in this paper.
- Items in section A are all **compulsory**.
- Write your responses in the spaces provided in section A
- Attempt only **two (2)** Items from section B.
- Write the items attempted from section B in the table below.
- All items carry equal scores.
- Present your responses for section B items on the answer sheets provided.
- Use a neat hand writing to avoid loss of marks.
- Read the scenarios carefully and interpret them well to avoid misfiring.
- Present your responses precisely and logically.
- Neat and necessary illustrations carry additional scores.

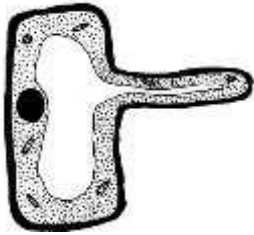
FOR EXAMINER'S USE ONLY

ITEM	SCORES
1	
2	
3	
ITEM_____	
ITEM_____	
TOTAL	

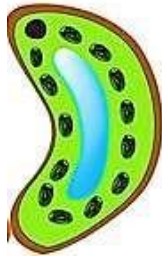
SECTION A
Attempt all items
Present your answers in the spaces provided

ITEM 1

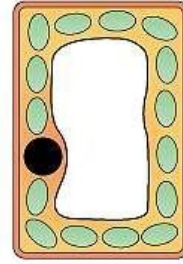
Plants are described as producers because they make food and avail the food to other organisms from which they benefit either directly or indirectly. For plants to make their own food, they use available materials from their environment. In the process of obtaining these materials, plants use different organs to do so. These organs manage to obtain these materials because they have special cells in them.



A



B



C

Task

a) By identifying the above cells, explain the meaning of a specialized cell. (3scores)

b) State how the function of each cell enable the plant to obtain the necessary material the plant needs. (6scores)

c) State one adaptation that each cell, has to enable it perform its function. (3scores)

A _____

B _____

C _____

ITEM 2

The human body has several tissues that form various systems in the body. One of the tissues is the **muscle tissue**. The muscle tissue is located in different parts of the body from where it enables the performance of different functions.

Task

- a) Identify the parts of the body in which the muscle tissue can be located. (3scores)

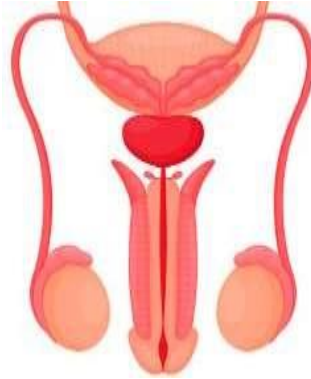
- b) State the function of the muscle tissue in the different organs of the body I which it is located. (3scores)

- c) Mention the challenges that the muscle tissue faces and suggest different ways through which the challenges can be managed. (6scores)

[illegible]

ITEM 3

The figure below shows one of the systems in the human body. The system performs some Functions that are always interfered by some disorders. Use it to answer the questions that follow.



Task

- a) Identify the above system and state three reasons for your answer. (4scores)

- b) Identify the functions of this system in the human body. (2scores)

- c) Mention any disorders that interfere with the normal functioning of the above system. State the different ways through which the disorders can be transmitted and the possible prevention measures for them. (6scores)

SECTION B

***Attempt only two items from this section
write your responses on answer sheets provided.***

ITEM 4

In our villages, local farmers engage in burning bushes and heaps of remains of plant harvests such as maize stocks and bean stems. This has been done several times and has now resulted in the reduction in crop production in some of the villages of Uganda.

Task

As a S.1 student in ST.Peters High school, state the living things that are affected in the above processes. Explain how the above organisms play a role in the productivity of the soil and suggest measures that farmers should practice to avoid the effects of the low crop productivity. (15scores)

SUPPORT MATERIAL



ITEM 5

An S.1 student planted cassava which he harvested and dried and at times ate by cooking. In the granary, he found rats eating his dried cassava and always saw cockroaches moving and feeding on the cooked cassava. The student decided to bring a cat to do away with the rats and sprayed the cockroaches, with which he succeeded.

SUPPORT MATERIAL



Task

Identify the phylum of each organism that the student dealt with and state the features that enabled you to classify each organism in the corresponding phylum. Use the scientific methods to construct an identification key that can be used to identify the organisms. State the scientific name of each organism. (15scores)

ITEM 6

A father in the village family has his boy. The father finds challenges with planting and caring for his plants. This has resulted in to rapid spread of infections in the plantations and consequently producing low yields. The father does not know the pests that attack his plantations as well as the chemicals he should use to overcome these pests and vectors. His son realized what his father is going through, so he decided to study so as to assist his dad in the gardens.

SUPPORT MATERIAL



Task

State with reasons, the possible branches of biology the family son should pursue so as he can help his father to overcome these challenges. How have the biological discoveries turned to be harmful to man and on the other hand state the ways through which the knowledge of biology has been productively applied in the everyday survival of man.

(15scores)

END

MERRY X.MAS AND PROSPEROUS NEW YEAR 2025