

Student's name..... Signature

553/1

BIOLOGY

(Theory)

Paper 1

NOV. /DEC. 2024

2 $\frac{1}{2}$ hours

S.1



COMPETENCE BASED ASSESSMENT EXAMINATIONS

BIOLOGY (THEORY)

PAPER 1

END OF YEAR EXAMINATIONS

SENIOR ONE

2Hours: 30 Minutes

Instructions.

The paper consists of five examination items. It has two sections A and B.

*Section A has **three compulsory** items*

*Section B has **two** items, Attempt **one item** from this section*

*Answer **four** items in total and any additional item answered won't be scored.*

Poor handwriting leads to loss of marks.

*Responses (answers) for section A must be **written in spaces** provided and those of section B on the answer sheet given.*

Item	1	2	3	4	Total score
Scores					

SECTION A

Attempt **all** items in this section in the spaces provided.

ITEM 1

1. Mr. Musoke is a great farmer in masaka. His cassava plants developed twisted/curled leaves with mosaic patterns and the tubers where deformed. He obtained very low yields last season, but is not certain of the cause.

Support material



Figure 1: shows a representative cassava plant from his garden

Task

(a) Name the plant structures and processes that were affected in the cassava plants.

Plant structures

[02 scores]

Processes affected

[02 scores]

This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

(d) Provide possible solutions on how Mr. Musoke can overcome the symptoms in his garden the following seasons. **[04 scores]**

ITEM2.

Viruses cannot be seen by our naked eyes and are very infectious to living organisms. They affect both plants and animals and possess both living and non-living properties. A school girl of 13 years of age living with HIV and on treatment became pregnant by a 16 year old boy in the same school. These teenagers have become the talk of the whole community.

Task

(a) Explain why viruses are;

(i) Not seen by our naked eyes. **[02 marks]**

(ii) Considered living things **[02 marks]**

(iii) Very infectious to living organisms **[01 mark]**

(b) State the possible talk about the teenagers by the community? **[03 scores]**

(b) Describe the likely challenges to be faced by the teenagers from their actions.

[04 scores]

(c) Advise other teenagers on how to overcome the above challenges. **[03 scores]**

ITEM 3

Mr. Kamugisha is a cattle farmer in Nakasongola district. In a bid to reduce destruction of people's crops by his cows, he fenced his land using poles however after a period of 8 month; he observed the poles falling down due to destruction of the poles by certain organisms. He observed the following organisms around the poles but not sure of which organism could have caused the damage.

Support material

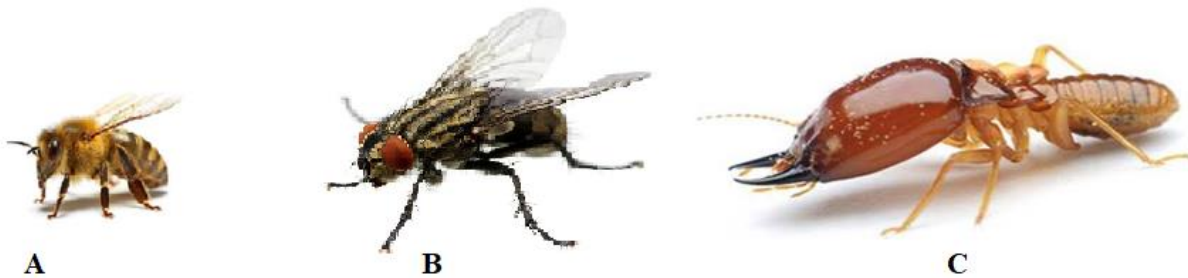


Figure 2: shows organisms obtained around the poles.

Task

(a) Giving two reasons in each case, state any two shared taxonomic levels among the organisms given above. **[05 scores]**

[03 scores]

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

- (d) Describe how the effects of organism B can be overcome by the farmer in his family. **[03 scores]**

SECTION B

Attempt only one question from this section.

ITEM 4

At SENK School, always on Tuesday they have a biology quiz between different classes. One time learners had a motion that stated ‘**life processes are not necessary in sustaining of life of living organisms**’.

Task

As a student of biology; advise proposers about the motion appropriately. **[15 scores]**

ITEM 5

Microbiologists claim that bacteria and viruses are responsible for the cause of both human infections and plant diseases. Reports show that many people have lost lives due to these microorganisms. However different bacteria are found to be important to in society. In 2021, many people of Mubende district developed symptoms of fever, vomiting and Internal and external bleeding (**through all body openings**) and many lost their lives in a very short period of time.

Task

(a) Why bacteria are called microorganisms. **[02 scores]**

(b) Describe how bacteria are economically important to in our society. **[05 scores]**

(c) Explain the possible cause and spread of the symptoms developed by people in

Mubende and advise them on how to overcome their spread. **[08 scores]**

END OF CYCLE
WE WISH YOU SUCCESS
MERRY CHRISTMAS AND HAPPY NEW YEAR