

Name :.....stream:.....

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553/1
Biology
Paper 1
(theory)
August, 2023
2 hours

BIOLOGY DEPARTMENT

Uganda certificate of lower secondary education

Senior one

BIOLOGY

Paper 1 (theory)

2 HOURS

INSTRUCTIONS

This paper is made up of only one section, answer all the questions in this paper.

Answers to these questions must be answered in the spaces provided.

All working must be clearly shown and must be in black or blue ink.

Any work done in pencil will not be marked except drawings.

<i>For examiners' Use Only</i>						
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>	<i>6</i>	<i>Total</i>

1. **AIDS is a viral disease that has claimed many lives of people worldwide. It is carried by a retrovirus which are small, very infectious and posses features for both living and nonliving things.**

a) **State three reasons why viruses are considered to be;**

i) **Living things**

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ii) **Nonliving things**

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b) **Name the retrovirus that is responsible for causing AIDS.**

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c) **Describe three ways how AIDS can be spread between S.1 members at SENK.**

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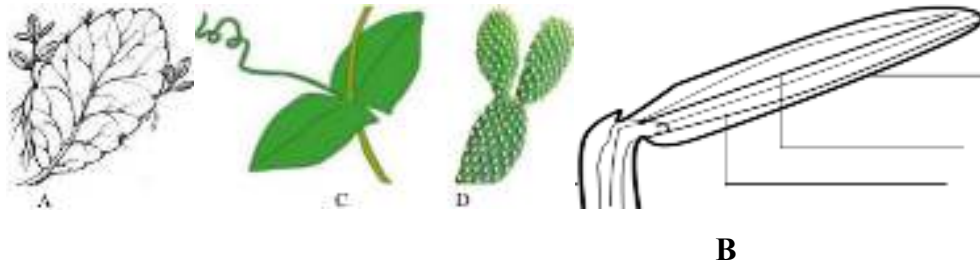
d) **How can S.1 members at SENK prevent themselves from getting infected with AIDS.**

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2. The figure below shows similar plant organs which were obtained from different plants.



- a) Giving two reasons, identify the plant organs shown in the figure above.

Identify	Reasons

- b) State the class of the plant from which organ B was obtained, give two reasons for your answer.

Class	Reasons

- c) Using any observable features, construct a dichotomous key to identify the organs A, B, C and D.

3. During leisure time on Sunday, students at SENK watch programs on national geographic world channel. One day, they watched a lion chasing a giraffe and Moses, a senior one student was very much excited. The lion took only three minutes to capture the giraffe. As a biology student;

- a) With reasons, name any five life processes that were expressed in the above scenario.

Life process	Reason

4. When a bread is kept for a long period of time, some structures known as mould begin developing in the surfaces of the bread.



- a) Identify the kingdom to which they belong.

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- b) State any three other organisms belonging to the same kingdom.

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c) State any four characteristics of organisms in the kingdom.

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d) Giving examples in each case, suggest any four economic importance of organisms in the above kingdom.

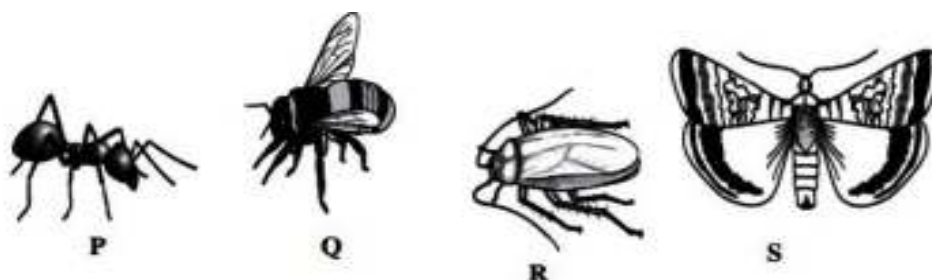
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5. Arthropods are very vital living things in nature. Below are some pictures of common arthropods in our environment.



a) Giving reasons, identify the class of animal R.

Class	Reasons

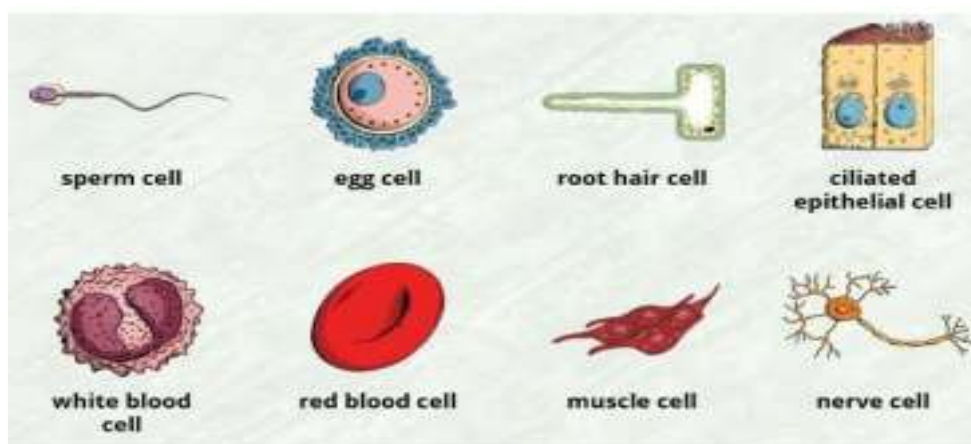
b) State any two ways in which animal P is different from animal R.

Animal P	Animal R

c) Using observable features on the drawings above construct a dichotomous key for the arthropods.

6. A block is made up of small units called bricks. In living organisms, these smallest units are called..... these units are grouped together to form tissues, which perform particular functions. The tissues are also grouped together to formwhich are also grouped together to formand finally an organism is formed.

b) Some cells in living organisms are said to be specialized. A sample of them were researched by S.1 students of SENK and the figure is shown below.



- i) **Explain the meaning of the underlined term and fill in the table below.**

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Cell name	Function

This is biology, not.....
END