

IVOXY EXAMINATION BOARD
Uganda Certificate of Lower Secondary Education
End of year examination 2022
Senior 1
1 hour and 30 minutes

NAME: _____

Instructions to candidates

- i. This paper consists of two sections; Section A and Section B
- ii. Section A consists of 6 structured questions. Attempt **all questions** in this section by filling the answers in the spaces provided.
- iii. Section B consists of four extended short essay questions. Attempt **any three** questions from this section. Answers to questions in this section must be written on separate answer sheets provided. All questions in this section carry equal marks.

SECTION A

1. a) Write down any two diseases caused by viruses in Uganda. (02 marks)

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- b) How should Ugandans protect themselves against some of the dangerous viral diseases stated in a) above? (03 marks)

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2. Below is an image of a very important structure of all life in the world.



a) What apparatus in the laboratory can be used to observe such an image? (01 mark)

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 b) Write one reason why you really think that it is important that all living organisms are made up of the structure above. (01 mark)

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 c) The above structure was extracted from a human cheek, draw and label one such structure which you think you will observe if you try to extract such structures from a bean leaf. (03 marks)

3. There are very many courses at university or even at institutes that involve the use of biology knowledge. State any five importances of people who attend such courses in your community. (05 marks)

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4. a) Write scientific names of any two important organisms in phylum Arthropoda in your society. (02 marks)

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b) Give the different uses of the organisms mentioned in b) above. (03 marks)

5. Below is a structure from a plant in Kenya.



a) Name the part of the plant shown aside. (01 mark)

b) Name any two plants around your school that have such a root system. (01 mark)

c) What is the main importance of such a structure in the cassava plant? (01 mark)

d) What are some of the other importances of the structure named in a) above? (02 marks)

6. a) Do you think animals can survive in a world without plants? (01 mark)

b) Give a reason for your answer in a) above. (01 mark)

c) Plants look to be totally vulnerable to animal attacks.

i) Give any two ways some plants have been able to protect themselves from animal attacks. (02 marks)

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- ii) How best can people protect plants at home from destruction? (01 mark)
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SECTION B (Answer any three questions from this section)

7. Mr. Ssebagala has a farm with animals like cows, goats, hens, ducks and dogs. He wants to make it a study farm for students of agriculture to learn more about animal rearing. He needs to show the learners a quick way to identify the different animals at his home using a flow chart but he cannot make it himself. He has hired you for a payment of 20\$. Therefore make a good flow chart that will make you earn that money. (10 marks)
8. When Mary was sick, she went to the hospital and a certain person called Annet in a white dress like cloth got a blood sample from her using a certain apparatus. Annet took the blood sample and looked through a certain instrument. Then Annet told Mary's Dad that Mary was suffering from typhoid.
- a) List down some of the important instruments that Annet used to test that Mary had typhoid. (02 marks)
 - b) Which organisms do you think Dr. Annet saw in the blood of Mary to be sure that Mary had typhoid? (01 mark)
 - c) What other structures do you think Dr. Annet can see in the blood of Mary? (02 marks)
 - d) What other diseases can be caused by other organisms in the same kingdom as the organisms mentioned in b) above? (02 marks)
 - e) Give some ways you can prevent such diseases in your community. (03 marks)
9. Explain with examples some ways how the organisms in the following levels of organization are important in Uganda.
- a) Kingdom monera (03 marks)
 - b) Phylum Angiosperm (03 marks)
 - c) Genus Periplaneta (01 mark)
 - d) Phylum chordate (03 marks)
10. If you are given a job in a cytology laboratory, you study about cells. If you are given a cell from a maize plant and a cell from the hand of a monkey baby, Write a report showing all information that you can present to show the similarity and differences between the two cells provided. (drawing can be used if necessary) (10 marks)

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