

Student's Name: ..... Stream: .....

School: .....

Class	Stream
S. 1	

(Write your Name, Class Stream and School in the spaces provided.)

553/1  
**BIOLOGY**  
 (Theory)  
**Paper 1**  
**JULY 2023**  
**2 hours**



**Uganda Lower Secondary Certificate of Education.**  
**(U.L.S.C.E)**

**S.2 COMPETENCE BASED ASSESSMENT EXAMINATIONS**  
**BIOLOGY**  
**(THEORY)**  
**Paper 1**  
**2 Hours**

**INSTRUCTIONS:**

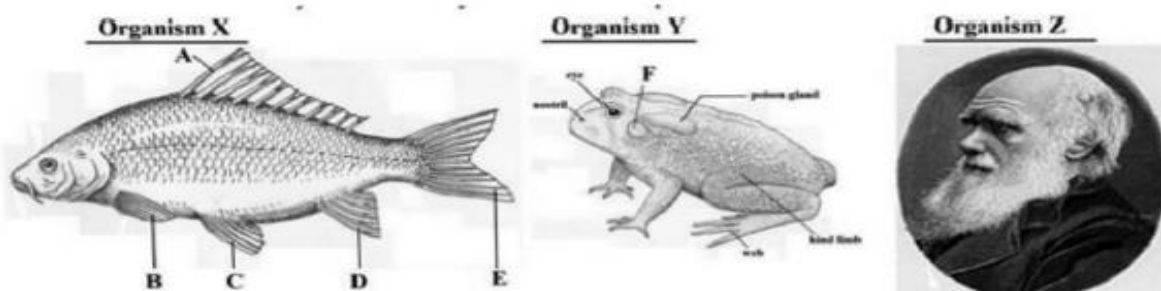
- This paper consists of **5** questions which are **ALL** Compulsory
- Answer **all** questions in the spaces provided.
- Illustrations in form of drawings should be made where necessary, with a sharp pencil.

**For official use only**

<i>Number</i>	<i>Score</i>	<i>Teacher's comment</i>
<b>1.</b>		
<b>2.</b>		
<b>3.</b>		
<b>4.</b>		
<b>5.</b>		
<b>6.</b>		

### SECTION A

1. The following are living organisms that were collected from the environment. They have been labeled as organism X, organism Y and organism Z; but these are not their real taxonomic names. Study them carefully and give appropriate responses to some questions that will follow.



- a) Name the parts labelled A – F. (03 marks)

A..... B.....  
 C..... D.....  
 E..... F.....

- b) The organisms shown above are classified as animals. Outline any two observable features that may qualify them to be called animals. (02 marks)

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- c) Observe organisms X and Y. state any three differences in structure between the two organisms.

Write your answers in the table below; (03 marks)

<i>Organism X</i>	<i>Organism Y</i>

- d) Organism X spends the whole of its life in water. However, this organism has some features that enable it to live in water. Identify any **two** of such features from the diagram. (02 marks)

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2. The picture below is like you, it requires small units in order to come up with that whole structure. In order for this house to be constructed, starts from a brick, wall, room, rooms and then finally to a house.



- (a) Relate these structures to how your body is organized using the table below.  
(05 marks)

Wall	
House	
Brick	
Room	
Rooms	

- (b) Arrange the above given answers in an increasing order i.e. from the smallest unit to the largest unit of your whole body. Give examples in each case. (05 marks)

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3. Below are some of the photos of some organisms that were sighted around a national game park in Uganda. Study them carefully and answer the questions that follow;



Eagle



Crested Crane



Cock



Ostrich

(a) Classify the organisms according to the following categories; (03 marks)

(i) Kingdom.: .....

(ii) Phylum: .....

(iii) Class.: .....

(b) Using only observable features in the photos, state any **two** reasons for the class in (iii) above of the organisms. (02 marks)

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(c) State any **two** adaptations of the organisms to their way of life. (02 marks)

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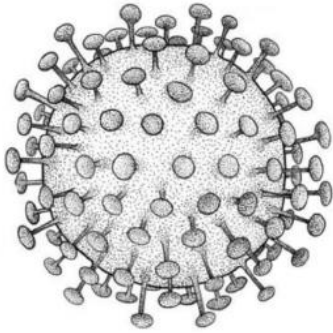
(d) Of what national importance is the crested crane to Uganda? (03 marks)

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4. In 2019, a global pandemic broke up and affected almost every country in the world. There were lots of deaths across the world, and prolonged lock downs that even caused closure of schools in Uganda. The disease was caused by a strange virus that scientists later isolated as having the structure as showed below;



- (a) Write down the name of the virus shown in the diagram. **(01 mark)**

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- (b) Name the disease caused by the above pathogen. **(01 mark)**

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- (c) State **two** ways in which the above pathogen can be spread from one individual to another. **(02 marks)**

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- (a) Give **three** signs and symptoms of the disease caused by the above virus. **(03 marks)**

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- (b) How can the spread of the above pathogen be controlled? Give three ways. **(03 marks)**

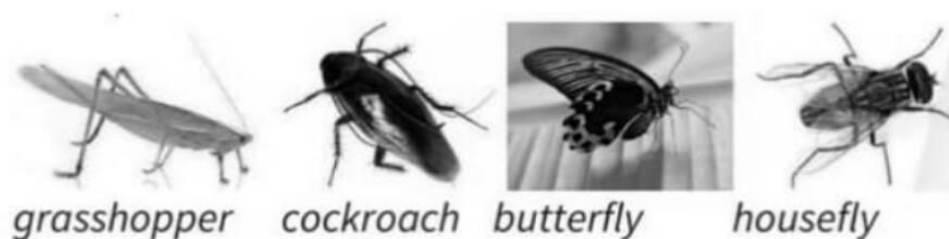
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5. Insects are examples of invertebrates. They are found in many areas within our environment and can either be useful or harmful to man. Study the insects below and answer questions that will follow. The names given are common names but not taxonomic names.



(a) Write down **two** characteristics that the above organisms possess that qualify them to be called insects. **(02 marks)**

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(b) Cockroaches are highly destructive insects and usually live in dark corners within our homes.

(i) State any two areas within the house where you could most probably find a cockroach. **(02 marks)**

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(ii) Give any three damages that can be caused by cockroaches in the house. **(03 marks)**

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(iii) How can you control the damages caused by cockroaches within the house? **(03 marks)**

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**END**