

NAME.....STREAM.....

SIGNATURE.....

BIOLOGY

THEORY

1½ HOURS

AUG 2023

**UGANDA CERTIFICATE OF LOWER SECONDARY
EDUCATION**

SPECIAL ASSESSMENT EXAMINATION 2023

S.1 BIOLOGY

1½ HOURS

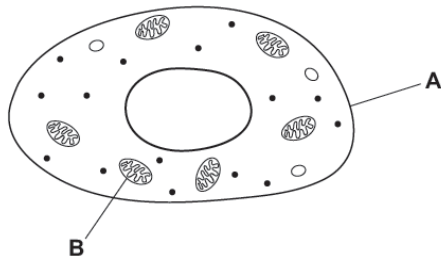
INSTRUCTION.

ATTEMPT **ALL** QUESTIONS IN SECTION A AND ANY ONE FROM SECTION B.
ANSWERS TO ALL QUESTIONS IN SECTION A **MUST** BE WRITTEN IN THE
SPACES PROVIDED. PRESENT YOUR WORK NEATLY

FOR EXAMINERS USE ONLY

NUMBER	MARKS	COMMENT
1		
2		
3		
4		
TOTAL		

1. Look at the diagram of an animal cell.



a. Write down the name of structures A and B

A.....

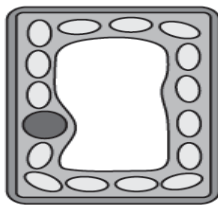
B.....

b. Write down the function of structures A and B.

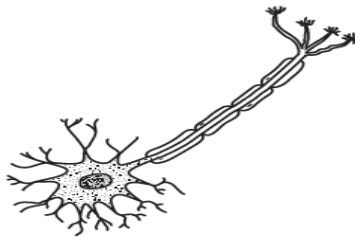
A.....

B.....

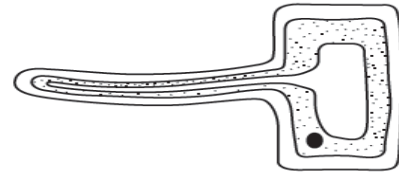
c. Look at the diagrams of different cells.



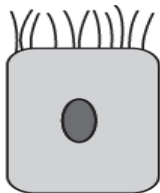
A



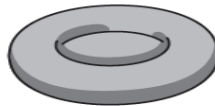
B



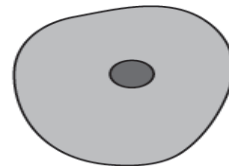
C



D



E



F

(i) Four of the cells are animal cells.

Write down the letters of the **four animal** cells.

(ii) Write down **two** reasons why these cells are animal cells and **not** plant cells.

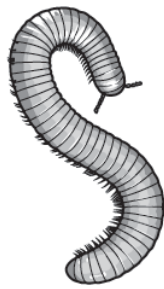
1.....

2.....

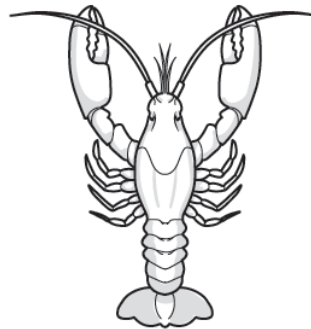
(iii) Microorganisms are made of cells. How many cells does a typical microorganism contain?

.....

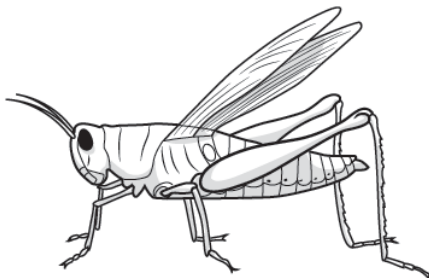
2. Look at the diagrams of the four arthropods, **A**, **B**, **C** and **D**.



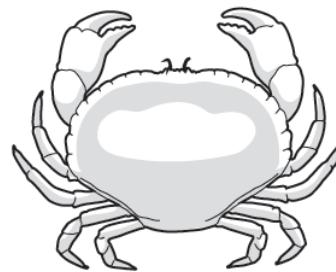
A



B



C



D

Use the key to identify each arthropod.

1a	has two claws	go to 2
1b	does not have claws	go to 3
2a	has a segmented tail	<i>Orconectes punctimanus</i>
2b	does not have a segmented tail	<i>Cancer pagurus</i>
3a	has wings	<i>Schistocerca gregaria</i>
3b	does not have wings	<i>Enantiulus armatus</i>

Write the letter of the correct arthropod next to its name.

Orconectes punctimanus.....

Cancer pagurus.....

Schistocerca gregaria.....

Enantiulus armatus.....

b. The mountain zebra belongs to the species, *Equus zebra*.



(i) Define the term **species**.

.....

.....

(ii) Growth is one characteristic of living organisms. Write down **three other** characteristics of the living organisms shown in the pictures.

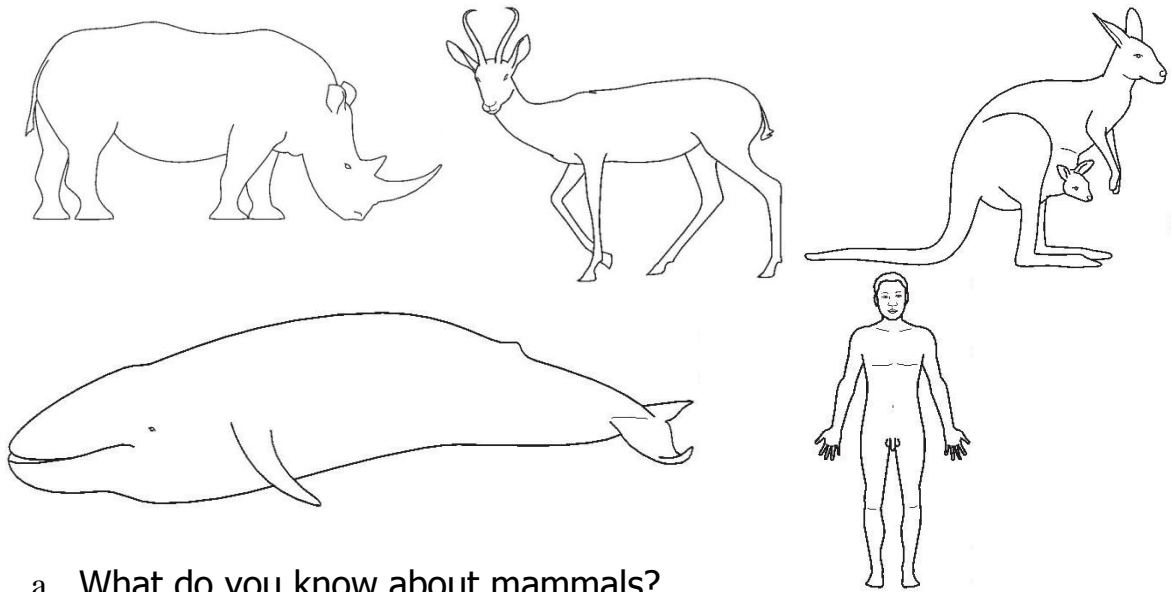


1.....

2.....

3.....

3. The diagram below shows five different mammals.



a. What do you know about mammals?

.....

.....

b. Give five economic importance of mammals

.....

.....

.....

.....

.....

c. Construct a dichotomous key that can be used to classify the above mammals.

4. Fill the blank of the table below with **yes** or **no** using the knowledge you've acquired from the biology lessons and research work.

Question	Virus	Bacteria	Plant
Is made up of more than one cell			
Is considered living			
Can locomote on its own			
Can produce or replicate			
Has DNA			
Has specialized structure and internal compartments			
May have a cell wall			
Has ribosomes			
Has cytoplasm			
Has mitochondria			

END



**“NO MATTER HOW YOUR DAY STARTS, ALWAYS FIND TIME TO
MAKE IT GREAT” ~ CAPTAIN AMERICA**