

MID OF TERM I EXAMINATIONS 2022

SENIOR TWO

BIOLOGY

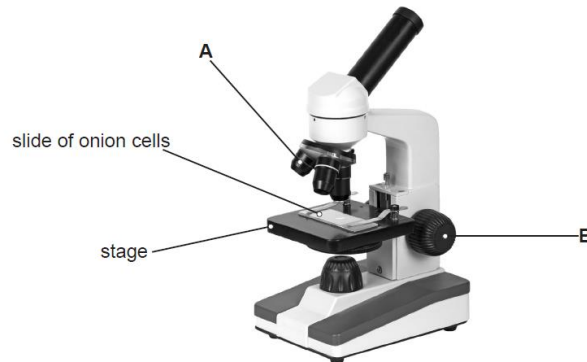
TIME: 1 ½ HOURS

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INSTRUCTIONS

- *Answer all the questions*
- *Answers must be written in the spaces provided.*

1. The photograph below is of a device which scientists often use in the laboratory. Look at the photograph carefully.



- (a) State the name of the device.

.....

- (b) Give the use of the above device in the laboratory.

.....

- (c) Name the parts **A** and **B**

A.....

B.....

- (d) State the importance of the stage on the device.

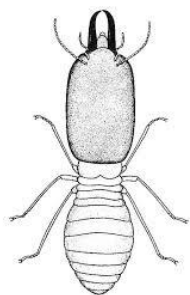
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2. Complete the table below to show the difference between plant and animal cells.

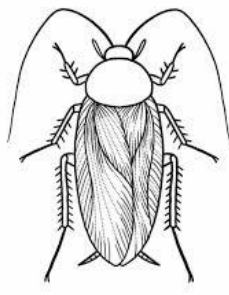
Use a tick (✓) to show if a cell part is present and a cross (✗) if it is absent.

Cell part	Cell	
	Plant Cell	Animal cell
Chloroplast		✗
Cell wall		
Cell membrane		
Nucleus	✓	✓

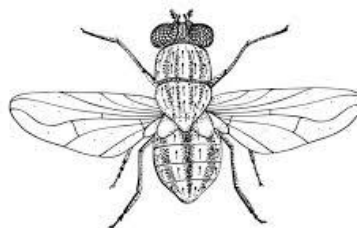
3. The pictures **A**, **B**, **C** and **D** below are of arthropods. Study them to find out their different Characteristics.



A



B



C



D

- (a) Fill in the spaces in the dichotomous key below using the letters that represent the arthropods.

1 (a) If arthropod has many legs, it is arthropod

(b) If arthropod has six legs, you go to 2

2 (a) If arthropod has no wings, it is arthropod

(b) If arthropod has wings, you go to 3

3 (a) If arthropod has long antennae, it is arthropod

(b) If arthropod has short antennae, it is arthropod

- (c) State **two** ways in which houseflies are useful to other organisms in the environment.

.....
.....
(d) State **one** way in which houseflies are harmful to other organisms in the environment.

.....
(e) State **two** ways of controlling houseflies from our homes.
.....
.....

4. The Linnaeus classification system below is not in the correct order. Study it carefully.

Kingdom

Genus

Family

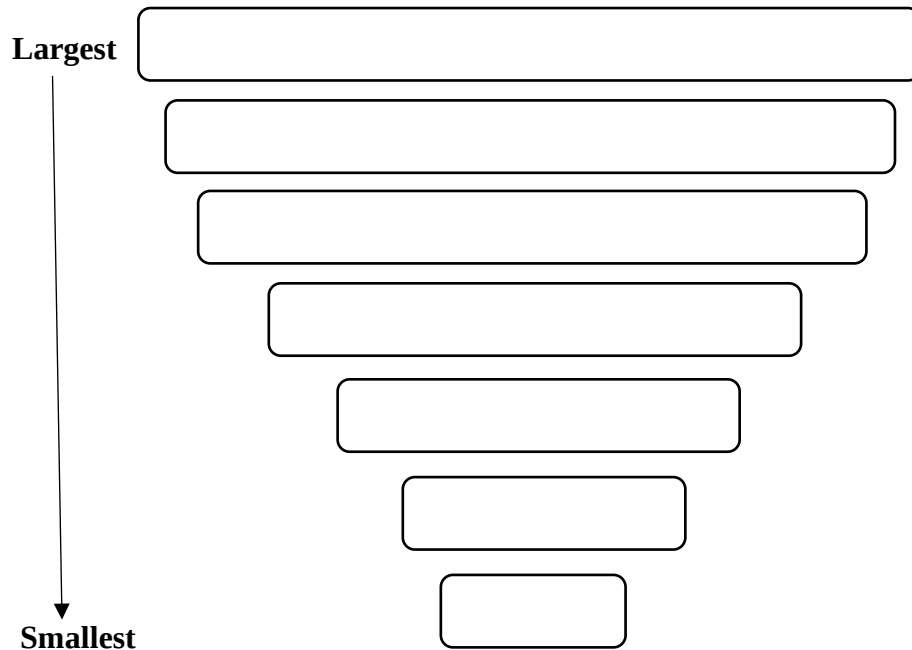
Phylum

Class

Species

Order

(a) Fill in the spaces below with the classification hierarchy in order of size from largest to smallest in terms of organisms.



(b) State the scientific name for man

.....

5. Complete the sentences below by selecting the correct word from the following list and use it to fill in the blank spaces.

(amphibia, live, chordata, backbone, dichotomous, aves, characteristics, classes, eggs, environment, mammalia, fish, birds)

The common characteristics of organisms in phylum is that they have a The organisms in this phylum are grouped into five namely; pisces,, reptilia, and mammalia. All organisms in these classes lay except for organisms in class which produces their young ones The internal body temperature for mammals and is constant while the internal body temperature for reptiles, amphibians and changes according to the external

A key can be used to identify organisms basing on their external observable

END