

NAME:.....

ADM NO.....

CLASS:.....

FORM 1

BIOLOGY EXAM

END OF TERM ONE 2019

TIME: 2 HOURS

FOR EXAMINERS USE ONLY

	MAXIMUM SCORE	SCORE
SECTION A	40	
SECTION B	60	
TOTAL	100	

INSTRUCTIONS: Answer **ALL** the questions in the spaces provided.

SECTION A: 40 MARKS

1. What do you understand by the term biology? (1mk)

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2. Name the **four** main branches of biology. (4mks)

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3. List down six functional characteristics of living things. (6mks)

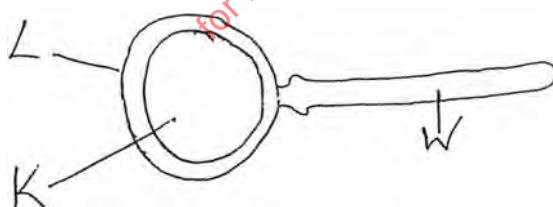
4. State any ~~three~~ precautions that should be observed when collecting and observing specimens. (3mks)

for more information

5. Give four reasons why biology is studied. (4mks)

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6. Name the sub-branches of biology that is involved in the study of; (5mks)
- Insects.....
 - Birds.....
 - Inheritance and variation.....
 - Fungi.....
 - Bacteria.....
7. State the function of the following apparatus in specimen's collection. (2mks)
- Fish net
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 - Specimen bottle
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.....
8. a). Define binomial nomenclature. (2mks)
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.....
- b). Give **three** rules/principles that are followed in writing Scientific names of organism. (3mks)
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.....
9. The diagram below represents a hand lens.



- a). Name the parts labeled K, L and W (3mks)
- K.....
- L.....
- W.....

b). State the function of the hand lens shown above.

(1mks)

c). Form one students observed a grasshopper measuring 6 cm in length and drew a diagram of the grasshopper measuring 3cm. Calculate the drawing magnification. (3mks)

10. Name **one** chemical substance that is used in preservation specimen in the lab. (1mks)

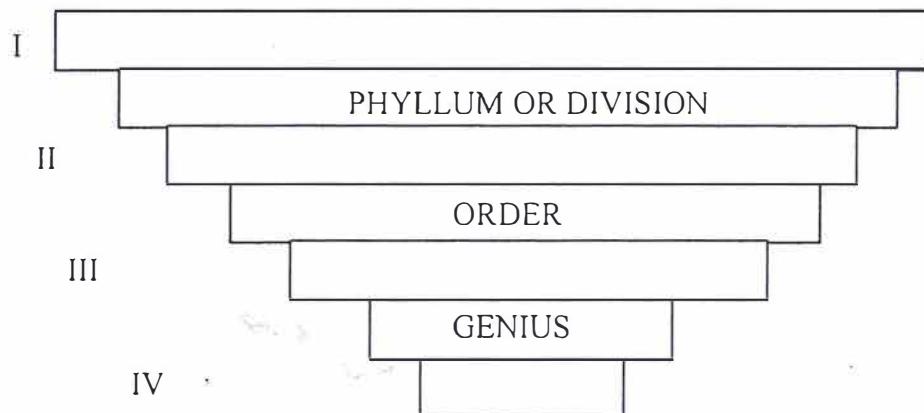
11. Define a species. (2mks)

SECTION B: (60MARKS)

12. Classification is the grouping of living organisms based on their structure. Give **three** reasons why it is necessary to classify organisms to various taxonomic groups. (3mks)

13. Complete the hierarchy scheme of classification shown below.

(4mks)



14. a). Write the correct kingdom for the following organisms.

(4mks)

- i). Mango tree.....
- ii). Yeast.....
- iii). Rabbit.....
- iv). Bacteria.....

b). Give **four** sources from where a biology student can get scientific names of organisms. (4mks)

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15. a). Kamau observed an object using a microscope with an eye piece magnification of X5 and objective lens X45. What was the magnification of the image? (3mks)

b). A form one student observed eight leaf epidermal cells across the field of view of a light microscope during a biology practical lesson. If the field of view was 4mm in diameter, estimate the average size of one cell in micrometers, (μm). (4mks)

16. Give **one** function of each of the following cell organelles. (3mks)

a). Nucleus

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b). Mitochondria

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c). Centrioles

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17. a). Define the term tissue. (1mks)

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.....

b). Name the animal tissue concerned with. (3mks)

i). Body support

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ii). Body movement

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iii). Irritability/respondiveness

18. Arrange the following in ascending order; organisms, tissue, organelle, organ, cell and organ system.

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19. State the role of the following in the plant

(3mks)

a). Xylem tissue

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b). Meristem tissue

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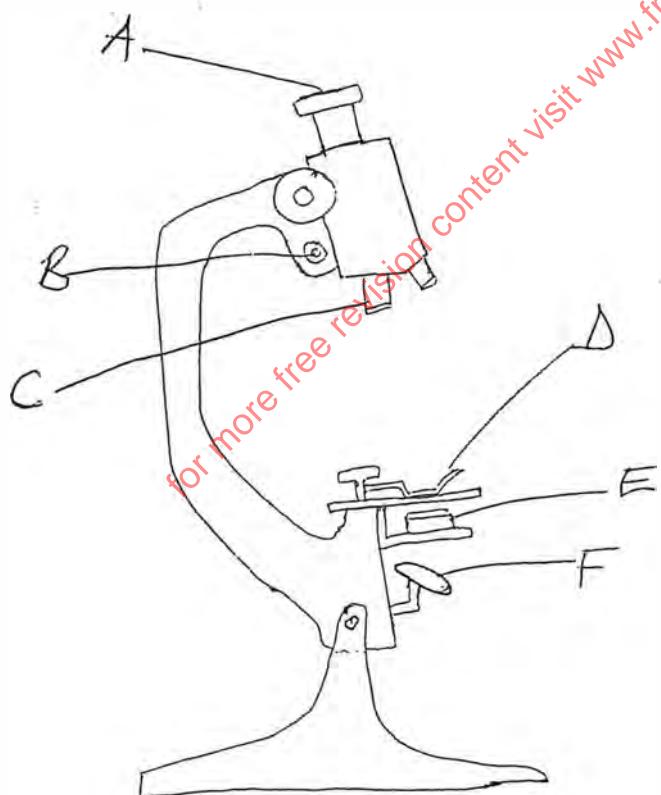
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c). Phloem tissue

.....

.....

20. a). Study the diagram of a light microscope below.



a). Name the part labeled

(6mks)

A.....

B.....

C.....

D.....

E.....

F.....

b). State the functions of the following parts.

(2mks)

i). Base

.....

ii). Revolving nose piece

c). Outline **five** differences between a light microscope and an electron microscope. (5mks)

Light microscope	Electron microscope

21. a). Draw a neat well labeled plants cell as seen under a light microscope. (7mks)

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b). Name **three** structures present in plant cell but absent in animal cell. (2mks)

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