

ALLIANCE HIGH SCHOOL

BIOLOGY FORM ONE

END OF TERM I 2016

TIME: 2 HOURS.

NAME: _____ ADMNO: _____ CLASS: _____

Answer ALL the questions in the spaces provided.

1. *Homo Sapiens* are human beings which belongs to the order primate and family Hominidae. Use the biological knowledge of classification to fill the blanks below for a student of form one.

[3 mks]

Kingdom _____
Phylum _____
Order _____
Family _____
Genus _____
Specie _____

2. State the branch of biology which deals with how characteristics and qualities of parents are given to the children in all living organisms. _____ [1 mks]

3. Give the branches in biology in which the principles below are found. [2 mks]

- i) Binomial nomenclature _____
ii) Natural selection _____

4. Under which of the following microscope magnification would one see a large part of the specimen X40, X400. Give a reason. [2 mks]

5. Explain the meaning of the following branches of Biology. [5 mks]

- i) Ecology

- ii) Mycology

9. State three differences between a plant and animal cell.

[3 mks]

10. Define the term species as used in classification.

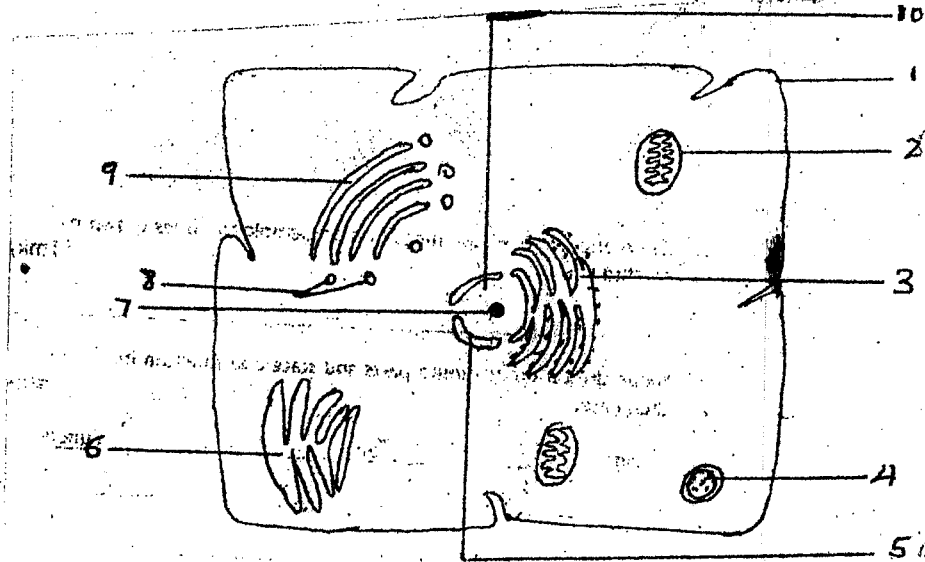
[1 mks]

11. State two functions of a microscope.

[2 mks]

- 1) _____
- 2) _____

12. Below is a diagram of a generalized animal cell. Use it to answer the questions that follow.



a) Name the parts labeled 1 – 10.

[5 mks]

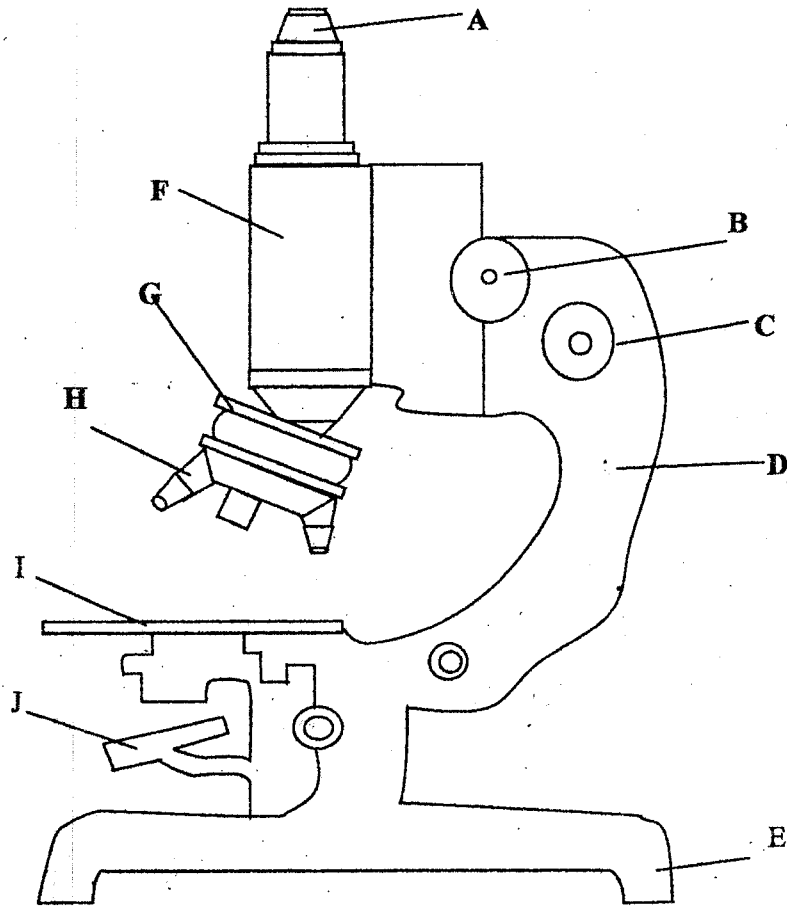
1. _____	2. _____
3. _____	4. _____
5. _____	6. _____
7. _____	8. _____
9. _____	10. _____

b) State the function of:

- 1. _____
- 2. _____
- 3. _____

13. a) Below is a diagram of a microscope. Label the parts.

[10 mks]



b) State the functions of the parts labeled above.

[10 mks]

- A _____
- B _____
- C _____
- D _____

- E _____
- F _____
- G _____
- H _____
- I _____
- J _____

14. Define Biology. [1 mk]

15. a) Define the term classification as used in biology. [1 mk]

b) Give three reasons why classification is important. [3 mks]

16. State five external features you would use to classify: [5 mks]

a) Plants _____

b) animals _____

c) Zedonk is an offspring between a zebra and a donkey. Why would it not be fertile? [1 mk]

17. Name **four** structures that are found in plant but not in animal cell.

[4 mks]

18. When preparing microscope slides, several steps are taken. List **four** steps used to prepare a slide.

[4 mks]

19. a) Define a cell.

[1 mk]

b) State functions of the following organelles:

[3 mks]

i) mitochondrion

ii) Ribosome

iii) Nucleus

20. The scientific name ***BIDEN PILOSA*** is not written according to Binomial system of scientific naming.

a) State **two** mistakes in writing of the scientific name above.

[2 mks]

b) Identify the specific name and generic name of the plant.

[2 mks]

21. Write down the seven taxa of classification in ascending order.

[7 mks]

22. i) Give two examples of cell organelles which are not visible through the light microscope but are visible through the electron microscope.

[2 mks]

ii) Briefly explain why these organelles are only visible through the electron microscope.

[2 mks]
