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### FORM ONE BIOLOGY

### **HOLIDAY ASSIGNMENT**

# **APRIL, 2024**

1. Write three major differences between plants and animals.
2. List the use of the energy obtained from the process of respiration.
3. a) What is meant by the term binomial nomenclature? (1mk)
b) Give two reasons why classification is important (2mks)
2. Explain the following terms; (3mks)
a) Classification
b) Taxonomy
c) Binomial nomenclature
d. State three characteristic similar in plants and animals.
3. Define the term species. (1mk)  4. Distinguish between Tayonomy and tayon (1mk)
4. Distinguish between Taxonomy and taxon. (1mk)
5. Which organelle would be abundant in?
Skeletal muscle cell
Palisade cell
6. State the functions of the following organelles.
Lysosomes
Golgi apparatus
7. State the functions of the following organelles;
Goigi apparatus
Ribosomes cell
8. Name the organelles that perform each of the following functions in a cell.
Protein synthesis
Transport cell secretions
9. The diameter field of view of a light microscopic is 3.5mm. Plant cells lying of the diameter are 10.
Determine the size of one cell microns $(1mm = 1000\mu m)$
10. Define the following
i) Tissue
ii) Organ
iii) Organ system
11. Distinguish between the following terms :-



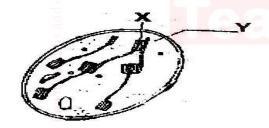
- a) Magnification and resolution of a microscope
- b) Mounting and staining of a specimen
- 12. Name the organelle that performs **each** of the following functions in a cell.
- (a) Transport of packaged glycoproteins
- (b) Destruction of worn out cell organelles
- (c) Synthesis of proteins
- 13. Why are the following procedures done when preparing sections to be observed under a

#### Light microscope?

- (a) Making of thin sections
- (b) Using a sharp blade to make the sections
- (c) Staining
- 14. What are the functions of the following parts of a light microscope?
- (a) Eye piece lens
- b) Condenser
- 15. Identify the structures of the cells that perform the following functions:-
- (a) Synthesize ribosomes
- (c)Regulate exchange of substances in and out of the nucleus

6.

- a) State the function of cristae in mitochondria (1mk)
- b) The diagram below represents a cell organelle



- (i) Name the part labeled Y (1mk)
- (ii) State the function of the part labeled X (2 mks)