

**FORM 1 TERM 1 2021
BIOLOGY**

Answer all the questions in the spaces provided.

1. State the meaning of the following terms as used in Biology. (3 mks)
- (a) Cytology –

 - (b) Entomology –

 - (c) Ichthyology –
2. (a) Define the term specimen. (1 mk)
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- (b) State two reasons for collecting specimens. (2 mks)
- (i)

 - (ii)
3. How is irritability different between plants and animals. (2 mks)
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4. The Scientific name of three animals; Leopard, Wolf and Lion all in the family Carnivora are Pantherapardus, CanisLupas and Pantheraleo respectively.
- (a) Why are scientific names given in Latin? (1 mk)

 - (b) What does Canis refer to? (1 mk)

 - (c) State the organisms that are most closely related. (1 mk)

(d) Give a reason for your answer in 4C above. (1 mk)

5. Name the organelles which would be numerous in the following cells. (2 mks)

(a) Liver cells -

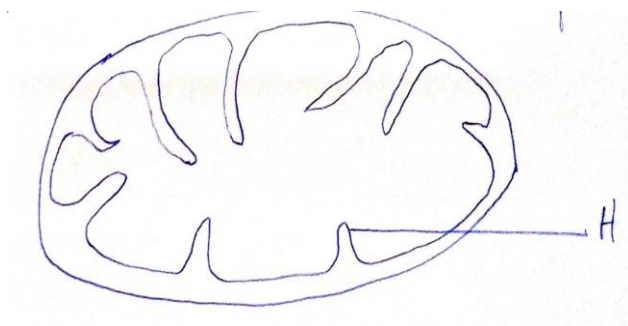
(b) Palisade cell –

6. Name the tissues that carry out the following functions in plants. (2 mks)

(a) Making new tissues –

(b) Protecting the inner more delicate tissues –

7. The diagram below shows an organelle present in most cells. Use it to answer the following questions.



(a) Name the organelle (1 mk)

(b) State its function. (1 mk)

(c) State the role of H. (1 mk)

8. Define the following terms:- (3 mks)

(a) Diffusion –

(b) Osmosis –

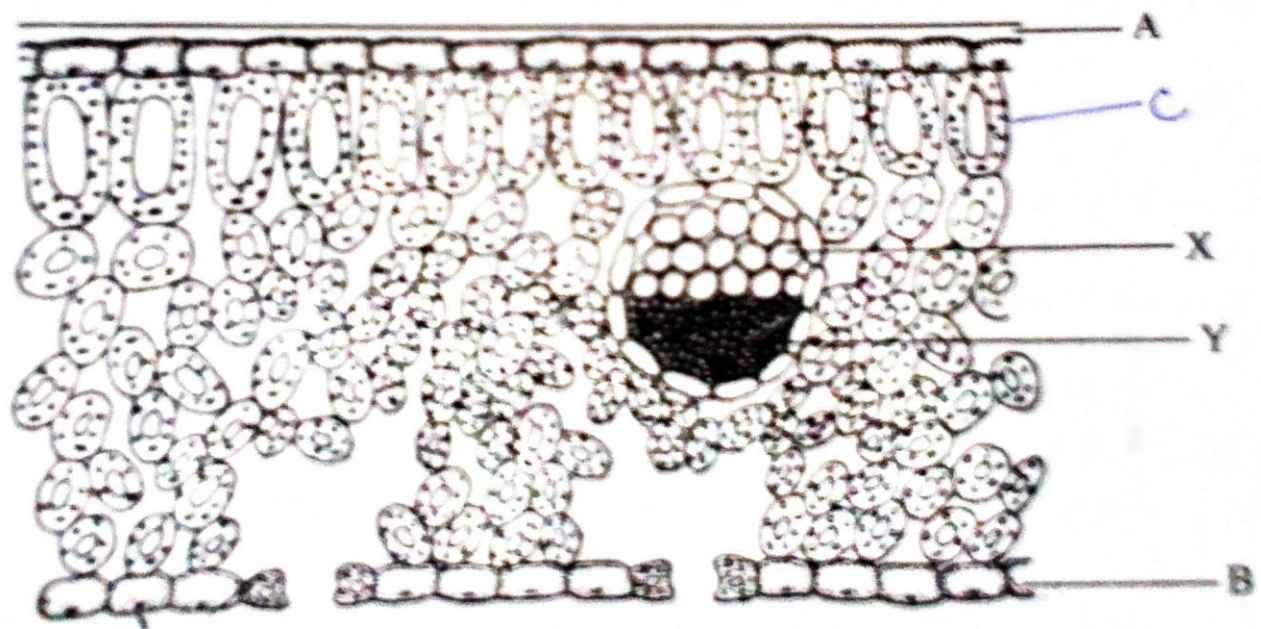
(c) Active transport -

9. State the name given to:-

(i) Bursting of red blood cells when placed in distilled in water.

(ii) The final condition of a plant cell when placed in concentration solution.

10. The diagram below is a transverse section of a leaf.



(a) Label the parts:

A

B

C

X

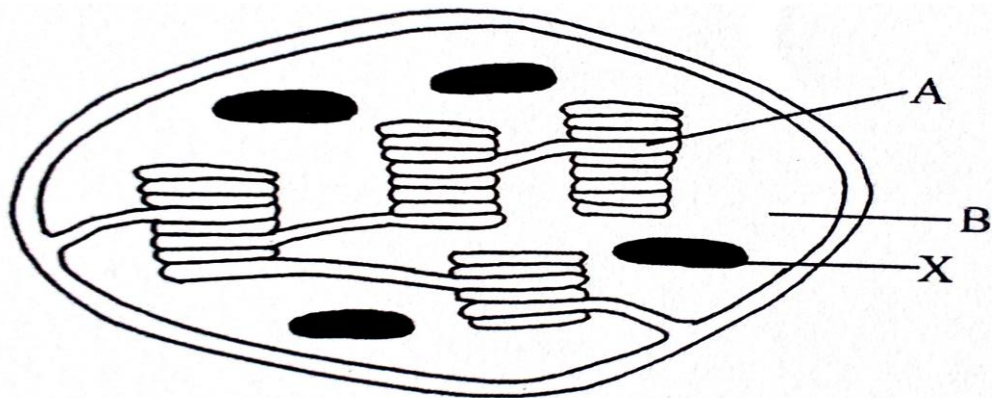
Y

(b) State the functions of:

X –

Y –

11. The diagram below represents a plant organelle.



(a) Name the organelle.

(b) State the function of the organelle.