



DELHI PUBLIC SCHOOL NEWTOWN
SESSION 2022-23
MONDAY TEST

CLASS: IX
SUBJECT: BIOLOGY

FULL MARKS: 40
DATE: 11.7.22

General Instructions:

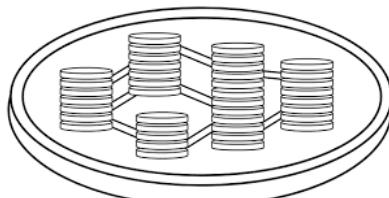
- The paper consists of three printed pages.
- Answers should be to the point.
- Copy the question number carefully before answering the questions.
- Marks will be deducted for spelling errors.

1. Choose the correct answer: [5]

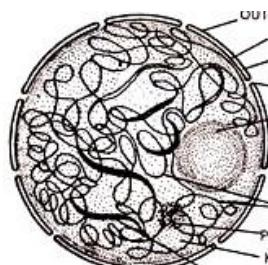
- a. Fibrous tissue which joins muscles to bone
 - i. Ligament, ii. Tendon, iii. Muscle, iv. Lymph
- b. Ray floret of sunflower is an example of
 - i. Complete flower, ii. Bisexual flower, iii. Neuter flower, iv. Hermaphrodite flower.
- c. Structural and functional unit of a living organism is
 - i. Tissue, ii. Cell, iii. Organ, iv. Organ System
- d. Chlorophyll is present in the structure
 - i. Chromoplast, ii. Endoplasmic Reticulum, iii. Thylakoid, iv. Lysosome
- e. Cell wall is composed of
 - i. Cellulose, ii. Lipoprotein, iii. Fat, iv. Granules

2. Identify the organelles A and B and mention one important characteristic feature and one important function of each of them. [5]

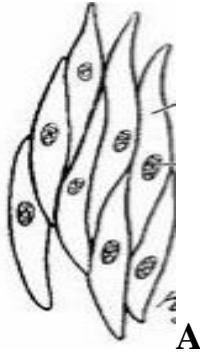
A.



B.



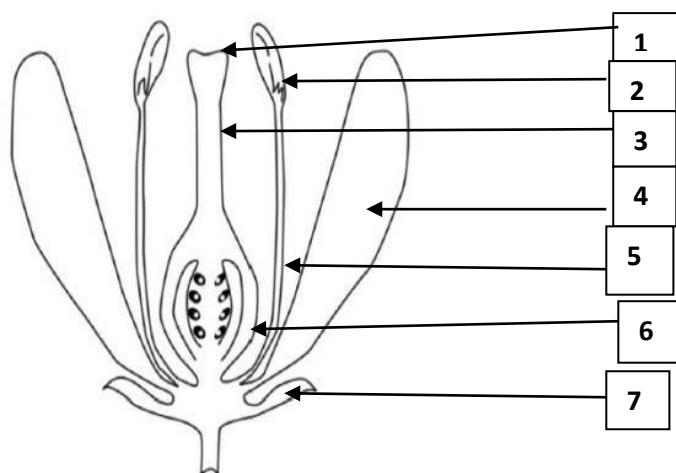
- 3. Give reasons for the following:** [5]
- i. Plasma membrane is known as the selectively permeable membrane of the cell.
 - ii. Meristematic tissue is found in the tip of the root.
 - iii. Flower of *Hibiscus* is a complete flower.
 - iv. Palm is a dioecious plant.
 - v. Animal cells have more mitochondria than a plant cell.
- 4. Differentiate between the following according to the criterion given in brackets:** [5]
- i. Striated and Cardiac muscle (Function)
 - ii. Ribosome and Lysosome (Function)
 - iii. Pedicel and Bract (Definition)
 - iv. Inflorescence and Placentation (Definition)
 - v. Bone and Cartilage (Presence of blood vessels)
- 5. Draw a neat and well labelled diagram of an animal cell. Mention the functions of mitochondria and centriole.** [5]
- 6. Who am I? [Technical terms only]** [5]
- i. Contains cell sap.
 - ii. Specialized tissues which store fat.
 - iii. Perianth which is green in colour.
 - iv. Groups of nectar secreting cells.
 - v. Stamens united in two groups by their filament.
- 7. Observe the diagram given below and answer the following questions:** [5]



- i. Identify the tissue "A".
- ii. Mention the structural features of the tissue "A".
- iii. Mention one important location and function of the tissue "A".
- iv. Name the muscle which is found in the arms and legs of our body.

8. Observe the diagram given below and answer the following questions:

[5]



- i. Label the parts 1, 2, 3 and 4.
- ii. Why are parts '4' and '7' known as non-essential whorls of a flower?
- iii. Mention the function of the parts labelled as "2" and "6".