



DELHI PUBLIC SCHOOL NEWTOWN
SESSION 2023-24
MONDAY TEST

CLASS: IX
SUBJECT: BIOLOGY

FULL MARKS: 40
DATE: 26.6.23

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. Calyx and corolla are known as the _____ whorls in a flower:
 - i. Necessary, ii. Sessile, iii. Non-essential, iv. Essential.
 - b. The type of epithelial cells responsible for absorption of digested food materials in the intestine:
 - i. Stratified epithelium, ii. Columnar epithelium, iii. Cuboidal epithelium, iv. Squamous epithelium.
 - c. Elongated thin-walled cells whose cell walls are thickened at the corners with pectin and cellulose:
 - i. Collenchyma, ii. Parenchyma, iii. Sclerenchyma, iv. Epithelial tissue.
 - d. Membrane boundary of the vacuole of plant cell:
 - i. Cell membrane, ii. Cell wall, iii. Thylakoid, iv. Tonoplast
 - e. Function of leucoplast is:
 - i. Respiration, ii. Storage of starch, iii. Photosynthesis, iv. Transmission of hereditary characters.
- 2. Choose the odd one out and write the correct category to which the others belong:** [5]
- a. Monadelphous, Monoecious, Diadelphous, Polyadelphous.
 - b. Cristae, Power house, Mitochondria, Nucleolus.
 - c. Squamous epithelium, Columnar epithelium, Cuboidal epithelium, Areolar tissue.
 - d. Nucleolus, Chromatin fibre, Nuclear membrane, Xanthophyll
 - e. Axon, Dendrite, Myelin sheath, Sarcolemma

3. State the exact location of the following: [5]

- a. Sieve tubes
- b. Receptacle
- c. Ribosome
- d. Dictyosome
- e. Ovule

4. Match the correct answers of Column I with Column II. Please rewrite the correct pairs: [5]

Column I	Column II
a. Adipose tissue	Meristematic tissue
b. Nectaries	Suicidal bag
c. Maize	Stores fat
d. Girth of the stem and root increases	<i>Nasturtium</i>
e. Lysosome	Monoecious Dioecious Parenchyma tissue

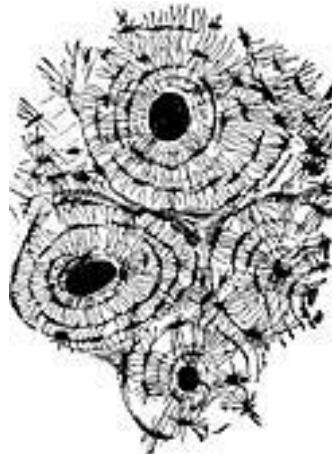
5. Answer the following questions:

- a. Define Neuron. [1]
- b. Differentiate between Striated muscle and Cardiac muscle on the basis of their structural features. [2]
- c. Mention the name of the unicellular, sexual structures which are present in the third and fourth whorls of a flower. [2]
- d. Name the cellular part of the blood which helps in clotting. Name the blood cell which is not found in the lymph. [2]
- e. Draw a neat and well labelled diagram of a plant cell. [3]

6. Answer the following questions:

- a. Define Inflorescence. [1]
- b. Mention the function of the following organelles:
 - i. Golgi Apparatus
 - ii. Nucleus[2]
- c. Mention the important function of Ligament and Tendon. [2]
- d. Name the disc like structures found in the chloroplast and mention the name of the pigment present in chloroplast. [2]

e. Answer the following questions by observing the diagram given below: [3]



- i. Identify the tissue.
- ii. Name the living cell which is present in this tissue.
- iii. Mention one important function of this tissue.