

DELHI PUBLIC SCHOOL, JAMMU

Revision Sheet for Term-1

CLASS-IX

SUB: BIOLOGY

**TOPICS: THE FUNDAMENTAL UNIT OF LIFE (Ch. 1)
TISSUES (Ch. 2)**

Based on your understanding of the E-Lectures-cum PPT's, video links and other e-resources shared with you, answer the following questions

Type (I) MCQ's with four options

- 1. Which of the following statements is incorrect?**
 - a. Cytoplasm is also known as protoplasm.
 - b. Lysosomes are known as the suicide bags of the cell
 - c. Mitochondria has its own DNA
 - d. All of the above are incorrect

- 2. The process by which water moves through a semi-permeable membrane from a region of high concentration to a region of lower concentration, thereby equalizing water concentration is called:**
 - a. Evaporation
 - b. Diffusion
 - c. Osmosis
 - d. All of the above

- 3. Which meristem is present at the base of the leaves or internodes on twigs?**
 - a. Apical meristem
 - b. Cambium
 - c. Intercalary meristem
 - d. Epidermis

- 4. Aditi observed following observations while looking into a permanent slide.**
 - (i) Cells are long and cylindrical**
 - (ii) Light and dark bands are present**

It could be a slide of:

 - a) Striated muscle fibre
 - b) Smooth muscle fibre
 - c) Neuron
 - d) Parenchyma cells

Type (II) Assertion & Reasoning Type :

Directions:

In each of the following questions, a statement of Assertion is given followed by a corresponding statement of Reason just below it. Of the statement, mark the correct answer as:

- (A) If both assertion and reason are true and reason is the correct explanation of assertion.
- (B) If both assertion and reason are true but reason is not the correct explanation of assertion.
- (C) If assertion is true but reason is false.
- (D) If assertion is false but reason is true.

5. Assertion : Cartilage (protein matrix) and bone (calcium matrix) are rigid connective tissue.

Reason: Blood is connective tissue in which plasma is the matrix.

- (a) A (b) B (c) C (d) D

6. Assertion : Most of plant tissues are dead..

Reason : Due to sedentary existence of plants, dead cells provide mechanical strength more easily than live ones and need less maintenance.

- (a) A (b) B (c) C (d) D

7. Assertion : The endoplasmic reticulum which lacks ribosomes is called smooth endoplasmic reticulum.

Reason : SER is mainly involved in protein synthesis.

- (a) A (b) B (c) C (d) D

8. Assertion : Cell wall is a non-living part of the cell..

Reason : It offers protection, definite shape and support.

- (a) A (b) B (c) C (d) D

Type (V) Case Study questions

9. Raisins are dehydrated grapes, Raisins swell up when soaked up in water. This is due to osmosis. Osmosis is a type of diffusion in which the molecule from a solution of higher concentration moves into the solution of lower concentration through a semi permeable membrane along a concentration gradient. Osmosis is of two types- endosmosis and exosmosis.

(i) What will happen if raisins are placed in sugar solution instead of water?

- a) Raisins swell up b) Raisins shrink
c) Raisins take in sugar and taste sweeter d) Raisins split

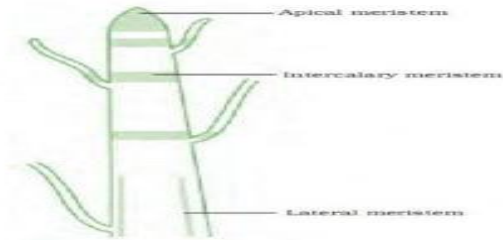
ii) Which of the following statements is incorrect about osmosis?

- a) It occurs only in plants.
b) It occurs through a semi permeable membrane
c) The water molecules move from a region of higher concentration to a region of lower concentration
d) The molecules move along a concentration gradient.

iii) What is the solution called when its concentration is the same as concentration inside the cell?

- a) Hypertonic solution
- b) Isotonic solution
- c) Hypotonic solution
- d) Dilute solution

10.) Observe the diagram and answer the following questions:



(i) This is the figure of:

- a) Meristemetic tissue
- b) Complex tissue
- c) Permanent tissue
- d) No of these

(ii) Group of dividing cells of a plant are called:

- a).Permanent tissue
- b) Meristem tissue
- c) Vascular tissue
- d) None of these

(iii) Meristems have dense cytoplasm with prominent nuclei and thin cell wall but lack :

- a) Mitochondria
- b) Ribosome
- c) Vacuole
- d) starch