

**DELHI PUBLIC SCHOOL JAMMU**

**SESSION-2025-26**

**MONTH: APRIL**

**ASSIGNMENT**

**CLASS: X**

**SUB: BIOLOGY**

**MARKS-18**

**1. The opening and closing of the stomatal pore depend upon:** **1**

- |                              |                                      |
|------------------------------|--------------------------------------|
| (a) Oxygen                   | (b) Temperature                      |
| (c) Water in the guard cells | (d) Concentration of CO <sub>2</sub> |

**2. The breakdown of pyruvate to give carbon dioxide, water and energy takes place in:** **1**

- |                 |                  |
|-----------------|------------------|
| (a) Cytoplasm   | (b) Mitochondria |
| (c) Chloroplast | (d) Nucleus      |

**3. The contraction and expansion movement of the walls of the food pipe is called:** **1**

- |                          |                   |
|--------------------------|-------------------|
| (a) Translocation        | (b) Transpiration |
| (c) Peristaltic movement | (d) Digestion     |

**Following question consist of two statements – Assertion (A) and Reason (R). Answer these questions selecting the appropriate option given below:**

- A. Both A and R are true and R is the correct explanation of A.**  
**B. Both A and R are true and R is not the correct explanation of A.**  
**C. A is true but R is false.**  
**D. A is False but R is true.**  
**E. Both A and R are false.**

**4. Assertion (A) : Bile is essential for digestion of lipids.** **1**  
**Reason (R) : Bile juice contains enzymes.**

**5. State the role played by the following in the process of digestion:** **2**  
(i) Enzyme trypsin  
(ii) Enzyme lipase

**6. Draw a flow chart to show the breakdown of glucose by various pathways.** **3**

**7. a) Where do plants get raw materials for photosynthesis?** **5**  
**b) Explain the mechanism of photosynthesis.**

**8. Carbon and energy requirements of the autotrophic organism are fulfilled by photosynthesis. It is the process by which autotrophs take in substances from the outside and convert them into stored forms of energy. This material is taken in the form of carbon dioxide and water which is converted into carbohydrates in the presence of sunlight and chlorophyll. Carbohydrates are utilised for providing energy to the plant.**

- |   |          |
|---|----------|
| i) Write a chemical reaction which occurs during photosynthesis?  | <b>1</b> |
| ii) In which form of carbohydrates does the plant stored in them? | <b>1</b> |
| iii) What is stomata? State its functions.                        | <b>2</b> |

Or

What is Chloroplast? State its function.  
**SUBMISSION DATE – 30<sup>th</sup> OF APRIL**