

Biology (New Book) - 9th Class Biology Urdu Medium Chapter 8 Preparation

Q1. What are the roles of these molecules for the cellular metabolism.

Ans 1: Cells get energy from the oxidation of food. They store this energy by combining ADP with Pi to form ATP

Q2. Why is chlorophyll important for photosynthesis.

Ans 1: Sunlight is absorbed by chlorophyll. It is then converted into chemical energy which drives the photosynthetic process.

Q3. Write the uses of ATP

Ans 1: i. Muscle contractions and movement
ii. Replication of DNA and mitosis
iii. synthesis of biomolecules.

Q4. What are the uses of ATP

Ans 1: 1. Muscle contractions and movement
2. Active transport of substances
3. Synthesis of biomolecules
4. Replication of DNA and mitosis
5. Transmission of nerve impulse
6. Maintenance of body temperature.

Q5. Name the products of anaerobic respiration in muscle cells.

Ans 1: Lactic acid ($C_3H_6O_3$)

Q6. Define Anaerobic Respiration.

Ans 1: Cellular respiration that occurs in the absence of oxygen is called anaerobic respiration.

Q7. How is oxygen produced during photosynthesis.

Ans 1: During light reaction of photosynthesis light breaks water molecule. Oxygen is released while hydrogen atoms give electrons to chlorophyll and become hydrogen ions.

Q8. Define Aerobic Respiration.

Ans 1: Cellular respiration occurring in the presence of oxygen is called aerobic respiration.

Q9. Define Light Reactions

Ans 1: During light reaction, light energy is used to make high-energy molecules ATP and NADPH

Q10. Name the main steps of aerobic respiration.

Ans 1: i. glycolysis
ii. Krebs cycle
iii. Electron transport chain
