

## Biology (New Book) - 9th Class Biology Urdu Medium Chapter 7 Preparation

Q1. What are cofactors.

**Ans 1:** Cofactors are the non protein molecules that are required by enzymes to be fully active.

Q2. Which enzymes are used for the removal of protein stains from clothes.

**Ans 1:** Protease enzymes are used for the removal of protein stains from clothes.

Q3. What is the optimum temperature for most of the human enzymes.

**Ans 1:** The optimum temperature for most of the human enzymes is 37 °C

Q4. What are enzymes.

**Ans 1:** Enzymes are proteins that speed up chemical reaction in living organism without being consumed in the process

Q5. Difference between catabolism and anabolism

**Ans 1:** Catabolism:

It involves the breakdown of complex molecules into simpler ones, releasing energy in the process.

Example:

Cellular respiration i.e. oxidation of food into CO<sub>2</sub> and H<sub>2</sub>O to get energy.

ii. Lipolysis i.e. breakdown of lipids into fatty acids and glycerol, which can be used for energy production.

**Ans 2:** Anabolism"

Involves building up complex molecules from simpler ones. This process consumes energy.

Example:

i. Photosynthesis i.e. conversion of carbon dioxide and water into glucose and oxygen using sunlight.

ii. Protein synthesis i.e. formation of proteins from amino acids, which are vital for cell structure and function.

Q6. What is enzyme inhibition.

**Ans 1:** The process in which enzyme inhibitors, bind to enzyme and decrease its activity.