

**Q) Which one of the following statements is not true about enzymes?**

- A) Enzymes are non-specific for a reaction and substrate.
- B) Almost all enzymes are proteins.
- C) Enzymes work as catalysts by lowering the activation energy of a biochemical reaction.
- D) The action of enzymes is temperature and pH specific.

Ans: A

**Explanation:**

Enzymes are mostly proteins. They function as catalysts in biochemical reactions by lowering the energy of activation. They are highly specific w.r.t. temperature and pH in their action.

**q) A non-reducing sugar "A" hydrolyses to give two reducing mono saccharides. Sugar A is**

- A) Fructose
- B) Galactose
- C) Glucose
- D) Sucrose

Ans: D

**Explanation:**

Sucrose → Hydrolyses glucose + fructose

Glucose and fructose both are monosaccharides. Sucrose is non-reducing sugar.

**Q) Identify the correct statements regarding enzymes**

- A) Enzymes are specific biological catalysts that can normally function at very high temperature ( $T \sim 1000\text{ K}$ )
- B) Enzymes are specific biological catalysts that possess well – defined active sites
- C) Enzymes are specific biological catalysts that cannot be poisoned
- D) Enzymes are normally heterogeneous catalysts that are very specific in their action

Ans: B

**Explanation:** Enzymes are shape selective specific biological catalysts which normally function effectively at body temperature.