MISSION M.B.BS

Date: 06/07/2022

Subject: ZOOLOGY

Topic : BIOMOLECULES - L6 Class: Standard XI

Instructions:

A

1. Which one of the following statements is correct?

   A. Holoenzyme = Apoenzyme + Coenzyme

   B. Coenzyme = Apoenzyme + Holoenzyme

   C. Holoenzyme = Coenzyme + Cofactor

   D. Apoenzyme = Holoenzyme + Coenzyme

2. Which of the following statement(s) is/are correct ?

   A. Every chemical reaction of metabolism is a catalysed reaction

   B. The process of formation or breaking down of substances through chemical reactions in living organism is called metabolism

   C. The proteins with catalytic power are called enzymes

   D. All of these

3. Which of the following is true regarding the active site of an enzyme?

   A. The active site is formed by the foldings and crevices in the tertiary structure

   B. The substrate binds to the active site

   C. The enzyme catalyzes a reaction through its active site

   D. All the above

4. Which of the following is an organic compound?

   A. Prosthetic group

   B. Coenzymes

   C. Metal ions

   D. Both a and b

5. Identify the organic compound which is associated with the apoenzyme transiently.

   A. Prosthetic group

   B. Coenzymes

   C. Metal ions

   D. Both a and b

6. Find the odd one out of the following.

   A. Keratin

   B. Glycoprotein

   C. Nucleoprotein

   D. Lipoprotein

7. Which of the following is false with respect to prosthetic groups?

   A. Proteins

   B. Non-proteins

   C. Tightly bound to enzymes

   D. Organic compounds

8. The role of an enzyme in a reaction is to

   A. decrease activation energy

   B. increase activation energy

   C. both a and b depending on the substrate

   D. increase potential energy

9. Which of the following is a type of structural protein?

   A. Collagen

   B. Enzymes

   C. Antibody

   D. Casein

10. Transition state structure of the substrate formed during an enzymatic reaction is:

    A. Temporary but stable

    B. Permanent but unstable

    C. Temporary and unstable

    D. Permanent and stable