

③ It insulate nerve cells and helps in brain functioning.

④ They protect vital organs like kidney and heart etc.

x ————— x

Enzymes:

Enzymes naturally occurring organic compounds in human body. These are made up of amino acids, helping the body to regulate the chemical reactions occurring in it.

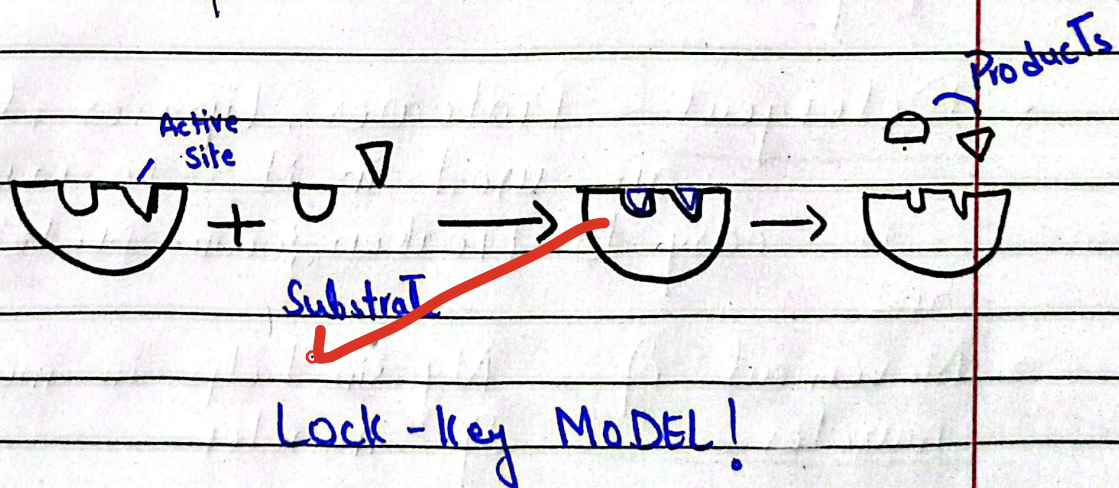
Features

- Enzymes are compounds with specific active site, performing only one reaction at a time.

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- It is composed of active site on which substrate sticks.
- It also consists of protein and non-protein parts.
non-protein part, known as co-factor
Protein part, known as apo enzyme
Together, these parts are known as Holoenzyme.
- It is also known as lock-key model due to its specific site for only one substrate molecule.
- It actually regulates the chemical reactions occurring in the body.
- These are highly sensitive to the temperature and pH.



Functions

Enzymes are not only helpful in the

body but also in the physical world, it plays a significant role.

Functions

Industries

- > Tanning
- > Paper making
- > Rubber
- > Brewing
- > Detergents

Environment

- > Degrading microbes occurring in the soil

Human Body

- > Digestion Process
- > Movement of muscles

> **Paper Industry** = Cellulases, Xylanases are used to remove cellulose and make smooth texture of paper.

> **Detergent** = Proteases, lipases, lignases are used in it. To make it easy to break down protein (stain).

> **Movement of muscles** = Myosin helps in movement of muscles

Tenderizers

= Papain is used to soften the meat.

good attempt!!!