

structure rather it is molded into the required shape to perform its function.

Q.6. Describe the specificity of enzymes. (Lahore board 2012 G II)

Ans. No. of known enzymes

There are over 2000 known enzymes, each of which is involved in one specific chemical reaction. Enzymes are also substrate specific.

Examples of enzymes specificity

The enzyme protease (which breaks peptide bonds in proteins) will not work on starch (which is broken down by an enzyme amylase). Similarly lipase enzyme acts only on lipids and digests them into fatty acids and glycerol.

Determination of specificity of enzymes

The specificity of different enzymes is determined by the shapes of their active sites. The active sites possess specific geometric shapes that fit with specific substrates. See in fig. 6.7 how the geometric shape of the active site of the given enzyme determines its specificity for substrate

(point out which substrate can exactly fit in the active site).

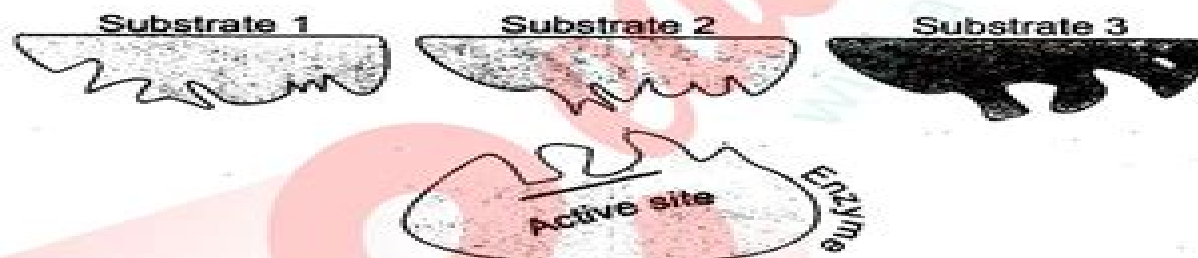


Figure 6.7: Specificity of enzymes due to geometric shape of active site

Multiple Choice Questions

1. What is TRUE about enzymes?

- (a) They make biochemical reactions to proceed spontaneously
- (b) They lower the activation energy of a reaction
- (c) They are not very specific in their choice of substrates
- (d) They are needed in large quantities

2. To what category of molecules do enzymes belong?

- (a) Carbohydrates (b) Lipids
- (c) Nucleic acids (d) Proteins

(Lahore board 2011 G II)

3. What is true about cofactors?

- a) Break hydrogen bonds in proteins
- b) Help facilitate enzyme activity
- c) Increase activation energy

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