

NCERT/CBSE PHYSICS CLASS 11 textbook

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CHAPTER FIVE

SURFACE CHEMISTRY

5.13

What are enzymes ? Write in brief the mechanism of enzyme catalysis.

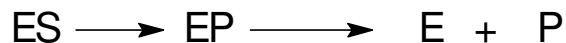
Enzymes are biochemical catalyst. Chemically all enzymes are made up of proteins. The most accepted mechanism of enzyme catalysis is the lock and key mechanism. Enzymes are highly specific in their action. The enzyme catalysed reaction takes place in two steps

Step 1 :- Formation of enzyme substrate complex.



Enzyme Substrate Enzyme substrate complex.

Step 2 :- Dissociation of enzyme substrate complex to form the products :-



Enzyme substrate complex Enzyme Product

The rate of formation of the products depends on the concentration of ES