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CHEMISTRY

C. CHAUDHARY.

Mechanism of Enzyme Catalysed reaction

Enzyme catalysed reaction proceeds in two steps first of all enzyme forms activated complex.

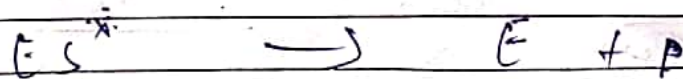
E = Enzyme

S. substrate



Activated complex

In the next step activated complex undergoes decomposition and forms product.



Activated complex

P = PRODUCT

Since enzyme sits on substrate like key and lock. therefore this model is also

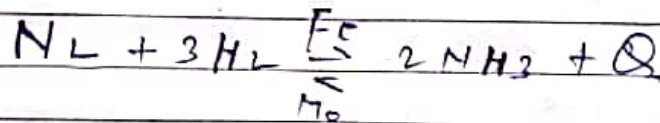
Called Lock and Key Model

INDUSTRIAL Application of
Catalysts.

There are several application of
Catalytic reaction in Industries.

(a) Manufacture of Ammonia by HABER

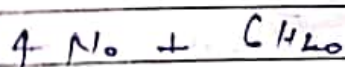
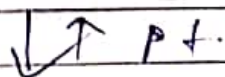
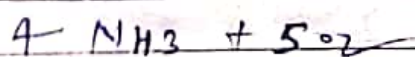
Process. During this manufacture
following reaction takes place



The above reaction is catalyzed by catalyst

Fe. In the above reaction Mo is used
as promoter.

(b) During the Manufacture of Nitric
acid Catalytic reaction is also utilized



In the above reaction Pt acts as
Catalyst