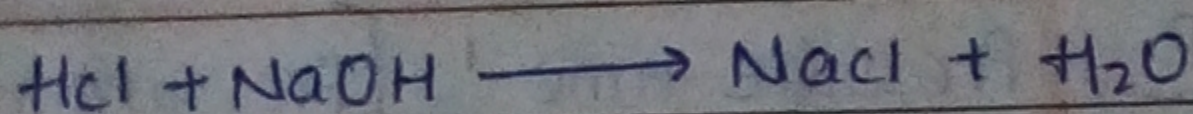
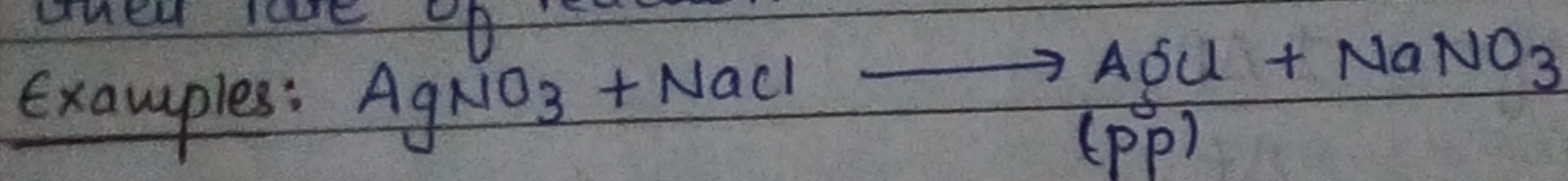


CHEMICAL KINETICS

Chemical Kinetics is the branch of physical chemistry which deals with the study of rate of reaction, mechanism of the reaction and factors affecting rate of reaction.

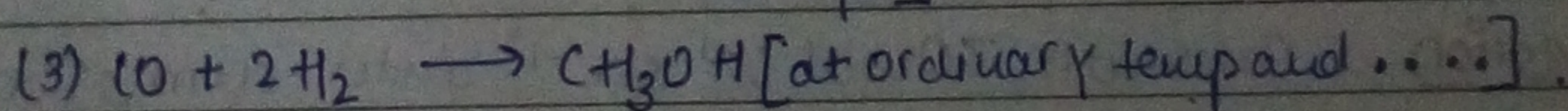
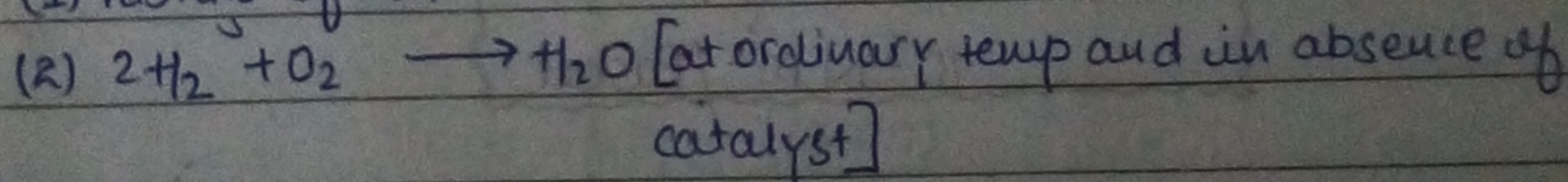
On the basis of speed of reactions are broadly divided into 3 categories:

- (i) Very fast / instantaneous reaction: these reactions are generally ionic reaction and these reactions take $(10^{-14} - 10^{-8})$ seconds for completion, so it is impossible to measure their rate of reaction.



- (ii) Very slow reactions: these reactions take place in days, month or year, so it is impossible to determine their rate.

Example: (1) rusting of iron



- (iii) Slow / moderate reactions: these reactions are intermediate b/w very fast and very slow, so we can determine their rate of reaction at ordinary temp.

