**CLASS-12**

**Assignment - 4**

**HOLIDAY HOMEWORK**

**CHEMICAL KINETICS**

1. Explain the term ‘Instantaneous Rate Of Reaction’ for both reactant and product of the reaction.

2. Solve all the numerical problems (intext and exercise) from the chapter Chemical Kinetics of the textbook.

3. Derive the formulae for the Rate Constant of Zero and First order reaction.

4. Explain the dependence of the rate of reaction on temperature. Derive the relationship between the Rate Constant and temperature .

5. Write any four differences between Molecularity and Order of the reaction.

6. Derive the rate constant of Zero, First and Second order reaction.

7. Explain why for Zero order reaction the half life period is dependent upon the initial concentration but it is independent for the first order reaction.

8. Explain Pseudo first order reaction.

9. Draw a graph to show the distribution curve showing temperature dependence of rate of a reaction.

10.Write a short note upon the Collision Theory of chemical reactions.