

B.Sc. 2nd Semester
Physical Chemistry
Section - A
Chemical Kinetics

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Some Important Questions

Part - I

- Q. 1. What is Rate of reaction? What are its units?
- Q. 2. What are the important factors affecting the rate of reactions?
- Q. 3. Express the rate of following reaction in terms of reactants and products
- $$2 \text{H}_2\text{O} (\text{aq.}) \longrightarrow 2 \text{H}_2\text{O} (\text{l}) + \text{O}_2 (\text{g})$$
- Q. 4. Derive integrated rate expression for 1st order reaction?
- Q. 5. Numericals related to 1st order reactions (as discussed in class).
- Q. 6. Integrated rate expression for zero order reaction.
- Q. 7. Numericals to determine order of reaction. (as discussed in class)
- Q. 8. Relationships of units of rate constant (k) with order of reaction.