

SECTION-C

5. How will you study fast reactions by flow method ?
6. (a) Explain the kinetics of photochemical reaction between hydrogen and bromine.
(b) Write a note on Oscillatory reactions.

SECTION-D

7. (a) Explain the effect of complex formation on polarographic wave.
(b) Derive Ilkovic equation.
8. What do you understand from polarography ? Draw a detailed set-up of conventional polarogram and explain different phenomena involved.

Exam. Code : 210403

Subject Code : 4941

M.Sc. Chemistry 3rd Semester (Batch 2020-22)
ELECTROCHEMISTRY & CHEMICAL DYNAMICS
Paper : Course-XIX

Time Allowed—3 Hours] [Maximum Marks—50

Note :—Attempt FIVE questions in all, selecting at least ONE question from each section. The **fifth** question may be attempted from any section. All questions carry equal marks.

SECTION-A

1. (a) What is electrical double layer ? Discuss Guoy-Chapmann model of electrified interfaces.
(b) Write a note on ion-solvent interactions
2. (a) Explain Tafel-Plot.
(b) What is corrosion ? Name different methods used to prevent corrosion.

SECTION-B

3. Explain methods of determining rate laws. What are the factors that affect reaction rates ?
4. (a) Write a note on activated complex theory.
(b) What are kinetic salt effects ?