

MSC CHEMISTRY
SEMESTER-III
Course: Elective-II (Physical Chemistry)
ELECTRO-CHEMISTRY

Note:-attempt all questions.

- Que1. (i) What is the inter ionic attraction of Debye-Hückel theory
(ii) Derive the Onsager Equation for dilute solution
(i) Write the Debye-Hückel limiting law and their application.
- Que2. (i) Explain the thermodynamic parameters for the ion-solvent interactions.
(ii) Write the electrolysis decomposition potentials
(iii) Explain polarization
- Que3. Write notes on:-
(i) Tafel equations
(ii) Fuel cells
(iii) Corrosion
- Que4. Explain the following with details-
(i) Electrical double layer
(ii) Electrokinetic phenomena
(iii) Zeta potential
- Que5. Explain the following-
(i) Electrode
(ii) Redox and precipitation titration
(iii) Conductometric titration