

Course Code: 3MSC4
Course: Elective-II (Physical chemistry)
Credit: 3
Last Submission Date: April 30 (for January Session)
October 31, (for July session)

Max. Marks:-30

Min. Marks:-11

Note:-attempt all questions.

- Que1. (i) What is the inter ionic attraction of Debye Huckel theory
(ii) Derive the Onsager Equation for dilute solution
(i) Write the Debye Huckel 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 cell
(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