

Shyam Lal College (M)

Teaching Plan (January 2024, even Semester)

B.Sc. Ist Year (Prog.), Semester-II

By

Dr. Padma Dechan

Week Days	Topics to be Covered
Week -01	Syllabus Discussions
Week-02	UNIT II: Chemical Bonding Introduction to various Chemical bonds
Week-03	Ionic Bonding: Introduction
Week-04	General characteristics of ionic bonding.
Week-05	Lattice Enthalpy and Solvation Enthalpy and their relation to stability and solubility of ionic compounds
Week-06	Lattice Enthalpy and Solvation Enthalpy and their relation to stability and solubility of ionic compounds....to be Continued
Week-07	Born-Lande equation for calculaion of Lattice Enthalpy (no derivation)
Week-08	Born-Haber cycle and its applications
Week-09	Assignment/Presentation and Class Test
Week-10	<u>Mid-Semester Break</u>
Week-11	polarizing power and polarizability, Fajan's rules, ionic character in covalent compounds
Week-12	Bond moment, dipole moment and percentage ionic character
Week-13	UNIT I: Periodic Properties General group trends of s block elements with special reference to Ionization Enthalpy, Electron Gain Enthalpy, Electronegativity, Enthalpy of Atomization, oxidation state, colour, metallic character, magnetic and catalytic properties, ability to form complexes
Week-14	General group trends of p block elements with special reference to Ionization Enthalpy, Electron Gain Enthalpy, Electronegativity, Enthalpy of Atomization, oxidation state, colour, metallic character, magnetic and catalytic properties, ability to form complexes
Week-15	General group trends of d block elements with special reference to Ionization Enthalpy, Electron Gain Enthalpy, Electronegativity, Enthalpy of Atomization, oxidation state, colour, metallic character, magnetic and catalytic properties, ability to form complexes

Week-16

Assignment/Presentation/Class Test and Remedial Class