

SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: B.SC-IIIrd(Non-Med+Med)

Semester: VIth

Subject: Inorganic Chemistry

Session: 2021-22

1	Unit-1 Introduction to organo metallic compounds, Types , classification of ligands, The metal-carbon compound
2	Effective atomic number for other organo metallic compounds nomenclature , bonding preparation
3	Properties , Bonding and application of some organo metallic compounds , organotin , organo lithium compounds.
4	Organotin and organo mercury compounds , metal olefin complexes , alkyne complexes.
5	Homogeneous hydrogenation , metal carbonyls structure of ferrocene & its properties
6	Revision Test
7	Unit-2 General introduction to acids & bases Arrhenius concept , Bronsted -Lowry concept of acids & bases.
8	Lewis Concept usanorich concept & Lux-fllood concept of acid & bases
9	Solvent system concept , types of solvent -protic & aprotic , Acidic , basic & amphoteric , ionising & non -ionising.
10	Relative strength of acids , Trends in acidic strength according to Born -Harber cycle & Fajan's rule.
11	Strength of oxo-acids , Empirical relationship for calculating pKa values of an acid.
12	Acid strength of hydrated cation -Role of solvent on the strength of Lewis acids & bases.
13	Revision Test
14	Unit-3 Silicones , Nomenclature , preparation silicone fluids or oils & its uses.
15	Elastomers (Rubber) , Types of Elastomers , liquid Rubber & high temperature vulcanising Elastomers.
16	silicone Resins , properties , polymerisation of cyclohexanes.
17	Polysiloxane copolymers , polyphosphazenes, preparation of phosphonitrilic compounds.
18	Organometallic substituted cyclic phosphazenes , properties , d-p pi bonding model in cyclotriphosphazenes.
19	Revision Test
20	Unit -4 Bioinorganic chemistry Introduction , types of elements , essential and trace elements and their function in biological system.
21	Study of essential bulk elements sodium and potassium , magnesium and calcium, phosphate and their roles in biological system.
22	Study of selenium , chromium , molybdenum , nickel , iron, mercury , phosphorous , cadmium , iodine , chlorine , arsenic in biological system.
23	Introduction to metalloporphyrins , haemoglobin , myoglobin and their structures , oxidation and oxygenation of Hb and Mb.
24	Role of Hb & Mb and their functions , cooperativity, Bohr effect and nitrogen fixation , sodium potassium pump.
25	Revision Test

L-34	"
L-35	If statement, if then else, Select Case
L-36	Looping Statements do loop
L-37	For next ,while wend, exit statement
L-38	"