Lesson Plan

B. Sc. III Year (VIth Semester)

Paper-XVIII (CH-304) Inorganic Chemistry

Teacher name: Dr. Neha Aggarwal

April 2021

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| Acids and Bases Arrhenius, Bronsted-lowry, Lux-flood, solvent system and Lewis concept of acids and bases, relative strength of acids and bases, levelling solvents, hard and soft acids and bases(HSAB), Applications of HSAB principle. Organometallic chemistry Definition, classification and nomenclature of |

May 2021

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| organometallic compounds, preparation, properties and bonding of alkyls of Li, Al, Hg and Sn, concept of hapticity of organic ligand, Structure and bonding in metal-ethylenic complexes, Structure of Ferrocene, classification in metal carbonyls, preparation, properties and bonding in mononuclear carbonyls. |

June 2021

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| Bio inorganic chemistry Metal ions present in biological system, classification on the basis of action (essential, non essential, trace, toxic), Metalloporphyrins with special reference to haemoglobin and myoglobin. Biological role of Na+ , K+ , Ca+2, Mg+2 , Fe+2 ions, Cooperative effect, Bohr effect. Silicones and Phosphazenes Nomenclature, classification, |

July 2021

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| prepration and uses of silicones, elastomers, polysiloxane copolymers, poly phosphazenes and bonding in triphosphazene. |