

महाराणा प्रताप पी.जी. कालेज, जंगल धूसड़, गोरखपुर

कक्षा : बी.एस-सी. भाग-दो		पाठ्यक्रम योजना : सत्र 2018-19		विषय : रसायनशास्त्र	
दिनांक	व्याख्यान	प्राध्यापक कानाम	प्रश्नपत्र	अध्याय	शीर्षक
16.07.2018	1	P.K.VERMA	II	Transition Elements	Introduction, Position in Periodic Table
17. 07.2018	2	P.K.VERMA	II	Transition Elements	Electronic configuration
18. 07.2018	1	DR. S.K VERNWAL	III	Carbohydrates	Classification
19. 07.2018	2	DR. S.K. VERNWAL	III	Carbohydrates	Ring structure of Glucose
20. 07.2018	1	DR. R. SAHAY	I	Thermodynamic-I	Introduction: definition of terms system, surroundings, open, isolated system Extensive & Intensive properties
21. 07.2018		DR. R. SAHAY	CT		
23. 07.2018	3	P.K.VERMA	II	Transition Elements	Atomic & Ionic Radii
24. 07.2018	4	P.K.VERMA	II	Transition Elements	Variable Oxidation State
25. 07.2018	3	DR. S.K. VERNWAL	III	Carbohydrates	Ring structure of Fructose
26. 07.2018	4	DR. S.K. VERNWAL	III	Carbohydrates	Properties of Glucose and Fructose
27. 07.2018	2	DR. R. SAHAY	I	Thermodynamic-I	State & Path function & their differentials, Reversible & Irreversible Process
28. 07.2018		DR. R. SAHAY	ME		
30. 07.2018	5	P.K.VERMA	II	Transition Elements	Ability to form complexes
31. 07.2018	6	P.K.VERMA	II	Transition Elements	Formation of coloured ions
01.08.2018	5	DR. S.K. VERNWAL	III	Carbohydrates	Interconversions in the Carbohydrate series
02.08.2018	6	DR. S.K VERNWAL	III	Carbohydrates	Ruff-degradation
03.08.2018	3	DR. R. SAHAY	I	Thermodynamic-I	Concept of heat & work, First law of Thermodynamics
04.08.2018		DR. R. SAHAY	CT		
06.08.2018	7	P.K.VERMA	II	Transition Elements	Magnetic (μ_s & μ_{eff}) behaviour
07.08.2018	8	P.K.VERMA	II	Transition Elements	Catalytic behaviour
08.08.2018	7	DR. S.K. VERNWAL	III	Aromatic Hydrocarbons	General method of preparation
09.08.2018	8	DR. S.K. VERNWAL	III	Aromatic Hydrocarbons	Molecular orbital structure of benzene
10.08.2018	4	DR. R. SAHAY	I	Thermodynamic-I	Concept of Internal Energy Enthalpy, Heat capacities at constant volume Pressure & their relations
11.08.2018		DR. R. SAHAY	CT		
12.08.2018	9	P.K.VERMA	II	Transition Elements	General comparative treatment of 4d & 5d elements with their 3d element
13.08.2018	10	P.K.VERMA	II	Acid Base Concept	Introduction, Lewis concept
16.08.2018	9	DR. S.K. VERNWAL	III	Aromatic Hydrocarbons	Aromaticity, Huckel's Rule
17.08.2018	10	DR. S.K. VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Halogenation & Nitration
18.08.2018	5	DR. R. SAHAY	I	Thermodynamic-I	Calculation of W, q, dU & dH for the expansion of Ideal gas under Isothermal

कक्षा : बी.एस-सी. भाग-दो		पाठ्यक्रम योजना : सत्र 2018-19		विषय : रसायनशास्त्र	
दिनांक	व्याख्यान	प्राध्यापक कानाम	प्रश्नपत्र	अध्याय	शीर्षक
20.08.2018		DR. R. SAHAY	CT		
21.08.2018	11	P.K.VERMA	II	Acid Base Concept	Classification of Hard & Soft Acid & Bases
23.08.2018	12	P.K.VERMA	II	Acid Base Concept	Classification of Hard & Soft Acid & Bases
24.08.2018	11	DR. S.K. VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Sulphonation, Friedel-Craft's alkylation
25.08.2018	12	DR. S.K. VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Friedel-Craft's acylation
27.08.2018	6	DR. R. SAHAY	I	Thermodynamic-I	Adiabatic condition for a reversible process
28.08.2018		DR. R. SAHAY	ME		
29.08.2018	13	P.K.VERMA	II	Acid Base Concept	Application of HSAB Principle
31.08.2018	14	P.K.VERMA	II	Acid Base Concept	Application of HSAB Principle
01.09.2018	13	DR. S.K. VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Orientation in aromatic substitution
04.09.2018	14	DR. S.K. VERNWAL	III	Mechanism of Aromatic Electrophilic Substitutions	Ortho-para ratio
05.09.2018	7	DR. R. SAHAY	I	Thermodynamic-I	Calculation from the thermodynamic data, Kirchhoff's Equation
06.09.2018		DR. R. SAHAY	CT		
07.09.2018	15	P.K.VERMA	II	Coordination Compounds	Introduction, Definition & Classification of Ligands
08.09.2018	16	P.K.VERMA	II	Coordination Compounds	Werner's Postulates
10.09.2018	15	DR. S.K. VERNWAL	III	Aromatic Halogen Compounds	Types of aromatic halogen compounds, Chlorobenzene
11.09.2018	16	DR. S.K. VERNWAL	III	Aromatic Halogen Compounds	Benzyl chloride
12.09.2018	8	DR. R. SAHAY	I	Thermodynamic-II	Second Law of thermodynamic , concept of Entropy, Entropy as a state function
13.09.2018		DR. R. SAHAY	CT		
14.09.2018	17	P.K.VERMA	II	Coordination Compounds	Sidgwick's effective atomic number concept
15.09.2018	18	P.K.VERMA	II	Coordination Compounds	Valence bond theory
17.09.2018	17	DR. S.K. VERNWAL	III	Aromatic Nitro Compounds	Nitrobenzene, Reduction of nitrobenzene
18.09.2018	18	DR. S.K. VERNWAL	III	Aromatic Nitro Compounds	m-Dinitro benzene, TNT
19.09.2018	9	DR. R. SAHAY	I	Thermodynamic-II	Entropy as a function of U & T, P & T , Entropy change in physical process
20.09.2018		DR. R. SAHAY	CT		
22.09.2018	19	P.K.VERMA	II	Coordination Compounds	Valence bond theory
24.09.2018	20	P.K.VERMA	II	Coordination Compounds	Chelate effect
25.09.2018	19	DR. S.K. VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Aniline
26.09.2018	20	DR. S.K. VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Benzyl amine

कक्षा :बी.एस-सी. भाग-दो		पाठ्यक्रम योजना : सत्र 2018-19		विषय : रसायनशास्त्र	
दिनांक	व्याख्यान	प्राध्यापक कानाम	प्रश्नपत्र	अध्याय	शीर्षक
27.09.2018	21	P.K.VERMA	II	Coordination Compounds	Nomenclature of only mono and dinuclear complexes
28.09.2018		P.K.VERMA	ME		
01.10.2018	21	DR. S.K. VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Basicity of aniline & Toluidines
03.10.2018	22	DR. S.K. VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Benzene Diazonium chloride
04.10.2018	10	DR. R. SAHAY	I	Thermodynamic-II	Gibbs Helmholtz function: Criteria for thermodynamics equilibrium & change in entropy
05.10.2018	11	DR. R. SAHAY	I	Chemical Equilibrium	Equilibrium constant and free energy
06.10.2018	22	P.K.VERMA	II	Coordination Compounds	Stereochemistry of coordination number 2,4 & 6
09.10.2018		P.K.VERMA	CT		
10.10.2018	23	DR. S.K. VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Synthetic uses of benzenediazonium chloride
11.10.2018	24	DR. S.K. VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Benzene sulphonic acid, Sulphanilic acid
12.10.2018	12	DR. R. SAHAY	I	Chemical Equilibrium	Thermodynamic derivation of Law of Mass action, Le-Chatelier's principle
13.10.2018	13	DR. R. SAHAY	I	Electrochemistry-I	Electrical transport conduction in metals & in electrolyte solutions, specific conductance
15.10.2018	23	P.K.VERMA	II	Coordination Compounds	$[\text{Ag}(\text{NH}_3)_2]^+$, $[\text{Ag}(\text{CN})_2]^-$, $[\text{Ni}(\text{CN})_4]^{4-}$
16.10.2018		P.K.VERMA	CT		
17.10.2018	25	DR. S.K. VERNWAL	III	Aromatic Amino Compounds & Diazonium Salts	Saccharine & Chloramine-T
22.10.2018	26	DR. S.K. VERNWAL	III	Phenols	Acid character, Reactions of phenol
24.10.2018	14	DR. R. SAHAY	I	Electrochemistry-I	Equivalent conductance, Measurement of equivalent conductance, variation of equivalent & specific conductance with dilution
25.10.2018	15	DR. R. SAHAY	I	Electrochemistry-I	Migration of ions & Kohlrausch law, Arrhenius theory of electrolyte dissociation & its limitations
26.10.2018	24	P.K.VERMA	II	Coordination Compounds	$[\text{Cu}(\text{NH}_3)_4]^{2+}$, $[\text{Zn}(\text{NH}_3)_4]^{2+}$, $[\text{MnO}_4]^-$
27.10.2018		P.K.VERMA	ME		
29.10.2018	27	DR. S.K. VERNWAL	III	Phenols	Picric acid
31.10.2018	28	DR. S.K. VERNWAL	III	Aromatic Alcohols Aldehydes & Ketones	Benzaldehyde & Salicylaldehyde
01.11.2018	16	DR. R. SAHAY	I	Electrochemistry-I	Weak and strong electrolytes, Ostwald's dilution law, its uses & limitations
02.11.2018	17	DR. R. SAHAY	I	Electrochemistry-I	Debye-Huckel-Onsager's equation for strong electrolytes
03.11.2018	25	P.K.VERMA	II	Coordination Compounds	$[\text{Fe}(\text{CN})_6]^{3-}$, $[\text{Fe}(\text{CN})_6]^{4-}$, $[\text{FeF}_6]^{3-}$
12.11.2018		P.K.VERMA	CT		
13.11.2018	29	DR. S.K. VERNWAL	III	Aromatic Alcohols Aldehydes & Ketones	Acetophenone & Benzophenone
14.11.2018	30	DR. S.K. VERNWAL	III	Aromatic Acids	Preparation & Properties of Cinnamic acid

कक्षा :बी.एस-सी. भाग-दो		पाठ्यक्रम योजना : सत्र 2018-19		विषय : रसायनशास्त्र	
दिनांक	व्याख्यान	प्राध्यापक कानाम	प्रश्नपत्र	अध्याय	शीर्षक
15.11.2018	18	DR. R. SAHAY	I	Electrochemistry-I	Activity and activity coefficient, Transport number definition & determination by Hittorf method & moving boundary method
16.11.2018	19	DR. R. SAHAY	I	Electrochemistry-I	Applications of conductivity measurements: determination of degree of dissociation, determination of K_a of acids
17.11.2018	26	P.K.VERMA	II	Coordination Compounds	$[\text{Fe}(\text{H}_2\text{O})_6]^{3+}$, $[\text{Fe}(\text{C}_2\text{O}_4)_3]^{3-}$, $[\text{Co}(\text{NH}_3)_6]^{3+}$
19.11.2018		P.K.VERMA	CT		
20.11.2018	31	DR. S.K. VERNWAL	III	Aromatic Acids	Phthalic acid & Salicylic acid
21.11.2018	32	DR. S.K. VERNWAL	III	Aromatic Acids	Acid structure of benzoic acid and substituted benzoic acids
22.11.2018	20	DR. R. SAHAY	I	Electrochemistry-I	Determination of solubility product of a sparingly soluble salts, conductometric titration
23.11.2018	21	DR. R. SAHAY	I	Electrochemistry-II	Types of reversible electrodes-gas- metal ion, metal-metal ion, metal insoluble salt-anion & redox electrodes,
24.11.2018	33	DR. S.K. VERNWAL	III	Polynuclear Hydrocarbons	Non condensed system: Biphenyl
26.11.2018		DR. S.K. VERNWAL	ME		
27.11.2018	22	DR. R. SAHAY	I	Electrochemistry-II	Electrode reactions, Nernst equation, derivation of cell E.M.F & single electrode potential
28.11.2018	23	DR. R. SAHAY	I	Electrochemistry-II	Standard Hydrogen electrode-reference electrodes-standard electrode potential
29.11.2018	27	P.K.VERMA	II	Coordination Compounds	$[\text{Co}(\text{en})_3]^{3+}$, $[\text{Ni}(\text{NH}_3)_6]^{2+}$, $[\text{PbCl}_6]^{2-}$
30.11.2018	28	P.K.VERMA	II	Coordination Compounds	Isomerism
01.12.2018	34	DR. S.K. VERNWAL	III	Polynuclear Hydrocarbons	Condensed system: Naphthalene
03.12.2018		DR. S.K. VERNWAL	CT		
06.12.2018	24	DR. R. SAHAY	I	Electrochemistry-II	Sign conventions, electrochemical series & its significance, Electrolytic & Galvanic cells
07.12.2018	25	DR. R. SAHAY	I	Electrochemistry-II	Reversible & Irreversible cells, Conventional representation of electrochemical cells
08.12.2018	29	P.K.VERMA	II	Coordination Compounds	Various types of Isomerism
11.12.2018	30	P.K.VERMA	II	Coordination Compounds	Stereoisomerism in CN-4 & CN-6
12.12.2018	35	DR. S.K. VERNWAL	III	Polynuclear Hydrocarbons	Naphthols&Naphthyl amines
13.12.2018		DR. S.K. VERNWAL	CT		
14.12.2018	26	DR. R. SAHAY	I	Electrochemistry-II	E.M.F. of a cell & its measurements, Computation of cell E.M.F., Calculation of thermodynamic quantities of cell reactions (ΔG , ΔH & K)
15.12.2018	27	DR. R. SAHAY	I	Electrochemistry-II	Concentration cell with and without transport, Liquid junction potentials, Application of concentration cells
17.12.2018	31	P.K.VERMA	II	Non aqueous Solvents	General introduction & Classification of solvent
18.12.2018	32	P.K.VERMA	II	Non aqueous Solvents	Characteristics proportion of solvents
19.12.2018	36	DR. S.K. VERNWAL	III	Heterocyclic Compounds	Preparation & properties of Furan
20.12.2018		DR. S.K. VERNWAL	ME		
21.12.2018	28	DR. R. SAHAY	I	Electrochemistry-II	Valency of ions, solubility product & activity coefficient, Potentiometric titrations, Definition of pH & pKa

[illegible]