

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

कक्षा : बी.एस-सी. भाग-दो			पाठ्यक्रम योजना : सत्र २०१४-२०१५		विषय : रसायन विज्ञान
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
16.07.2014	1	P.K. Verma	II	Transition elements	Introduction, position in periodic table
17.07.2014	2	P.K. Verma	II	Transition elements	Electronic configuration
18.07.2014	1	Dr. Shalini Singh	I	Thermodynamics-I	Introduction, Definition of terms
19.07.2014	2	Dr. Shalini Singh	I	Thermodynamics-I	State and path function and their differential. Concept of heat & work.
21.07.2014	1	Dr. S. K. Vernwal	III	Carbohydrates	Classification
22.07.2014	2	Dr. S. K. Vernwal	III	Carbohydrates	Ring structure of glucose
23.07.2014	3	P.K. Verma	II	Transition elements	Atomic & ionic radii
24.07.2014	4	P. K. Verma	II	Transition elements	Variable oxidation state
26.07.2014	3	Dr. Shalini Singh	I	Thermodynamics-I	Ist law, concept of U, H, Cp, Cv relationship between Cp and Cv
28.07.2014	4	Dr. Shalini Singh	I	Thermodynamics-I	Calculation of w,q, du, dH for the expansion of ideal gases under adiabatic and isothermal expansion.
30.07.2014	3	Dr. S. K. Vernwal	III	Carbohydrates	Ring structure of fructose
31.07.2014	4	Dr. S. K. Vernwal	III	Carbohydrates	Interconversions in the carbohydrate series
02.08.2014	5	P. K. Verma	II	Transition elements	Ability to form complexes
04.08.2014	6	P. K. Verma	II	Transition elements	Formation of coloured ions
05.08.2014	5	Dr. Shalini Singh	I	Thermodynamics-I	Thermochemistry standard state
06.08.2014	6	Dr. Shalini Singh	I	Thermodynamics-I	Hess's law of constant heat summation and its application
07.08.2014	5	Dr. S. K. Vernwal	III	Carbohydrates	Ruff degradation and Kiliani-Fischer synthesis
08.08.2014		Dr. S. K. Vernwal		Class Teaching	
09.08.2014	7	P. K. Verma	II	Transition elements	Magnetic (μ_s and μ_{eff}) Behaviour
11.08.2014	8	P.K. Verma	II	Transition elements	Catalytic behaviour
12.08.2014	7	Dr. Shalini Singh	I	Thermodynamics-I	Bond energy, Kirchoff's equation
13.08.2014	8	Dr. Shalini Singh	I	Thermodynamics-II	Entropy as a state function
14.08.2014	6	Dr. S. K. Vernwal	III	Aromatic hydrocarbons	General methods of preparation
16.08.2014		Dr. S. K. Vernwal		Class Teaching	
19.08.2014	9	P. K. Verma	II	Transition elements	General comparative treatment of 4d & 5d elements

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

कक्षा : बी.एस-सी. भाग-दो			पाठ्यक्रम योजना : सत्र २०१४-२०१५		विषय : रसायन विज्ञान
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
20.08.2014	10	P. K. Verma	II	Acid base concept	Introduction, lewis concept
21.08.2014	9	Dr. Shalini Singh	I	Thermodynamics-II	Entropy as a function V & T, P & T
22.08.2014	10	Dr. Shalini Singh	I	Thermodynamics-II	Entropy change in physical process, Gibb's function
23.08.2014	7	Dr. S.K. Vernwal	III	Aromatic hydrocarbons	Molecular orbital structure of benzene
25.08.2014		Dr. S.K. Vernwal		Monthly Evaluation	
26.08.2014	11	P.K. Verma	II	Acid base concept	Classification of hard & soft acids and bases
27.08.2014	12	P.K. Verma	II	Acid base concept	Classification of hard & soft acids and bases
28.09.2014	11	Dr. Shalini Singh	I	Thermodynamics-II	Helmholtz function, criteria for spontaneity in terms of U,G,H,A
29.09.2014	12	Dr. Shalini Singh	I	Thermodynamics-II	Concept of chemical potential, equilibrium . constant & free energy
30.08.2014	8	Dr. S. K. Vernwal	III	Aromatic hydrocarbons	Aromaticity
01.09.2014		Dr. S. K. Vernwal		Class Teaching	
02.09.2014	13	P. K. Verma	II	Acid base concept	Application of HSAB principle
03.09.2014	14	P. K. Verma	II	Acid base concept	Application of HSAB principle
04.09.2014	13	Dr. Shalini Singh	I	Chemical equilibrium	Thermodynamic derivation of law of mass action, Le-Chatelier principle
05.09.2014	14	Dr. Shalini Singh	I	Chemical equilibrium	Application of Le Chatelier principle
06.09.2014	9	Dr. S. K. Vernwal	III	Mechanism of aromatic electrophilic substitutions	Halogenation and nitration
10.09.2014		Dr. S. K. Vernwal		Class Teaching	
12.09.2014	15	P. K. Verma	II	Coordination compounds	Introduction definition and classification of ligands
13.09.2014	16	P. K. Verma	II	Coordination compounds	Werner's postulates
16.09.2014	15	Dr. Shalini Singh	I	Electrochemistry	Conduction in metals and solutions
18.09.2014	16	Dr. Shalini Singh	I	Electrochemistry	Specific, equivalent conductance and effect of dilution on it
19.09.2014	10	Dr. S. K. Vernwal	III	Mechanism of aromatic electrophilic substitutions	Sulphonation, Friedel-Craft's alkylation
20.09.2014		Dr. S. K. Vernwal		Class Teaching	
22.09.2014	17	P. K. Verma	II	Co-ordination compounds	Sidgwick's effective atomic number concept

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

कक्षा : बी.एस-सी. भाग-दो			पाठ्यक्रम योजना : सत्र २०१४-२०१५		विषय : रसायन विज्ञान
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
24.09.2014	18	P. K. Verma	II	Co-ordination compounds	Valence bond theory
26.09.2014	17	Dr. Shalini Singh	I	Electrochemistry	Migration of ions, Kohlrausch's law
27.09.2014	18	Dr. Shalini Singh	I	Electrochemistry	Arrhenius theory of electrolytes weak & strong electrolytes
29.09.2014	11	Dr. S. K. Vernwal	III	Mechanism of aromatic electrophilic substitution	Orientation in aromatic substitutions
30.09.2014		Dr. S. K. Vernwal		Monthly Evaluation	
01.10.2014	19	P. K. Verma	II	Co-ordination compounds	Valence bond theory
07.10.2014	20	P. K. Verma	II	Co-ordination compounds	Chalate effect
09.10.2014	19	Dr. Shalini Singh	I	Electrochemistry	Ostwald's dilution law and its limitations
10.10.2014	20	Dr. Shalini Singh	I	Electrochemistry	Debye-Huckel Onsanger equation, conduction of strong electrolyte
11.10.2014	12	Dr. S. K. Vernwal	III	Mechanism of aromatic electrophilic substitutions	Ortho-para ratio
13.10.2014		Dr. S. K. Vernwal		Class Teaching	
14.10.2014	21	P. K. Verma	II	Co-ordination compounds	Nomenclature of only mono and dinuclear complexes
15.10.2014	22	P. K. Verma	II	Co-ordination compounds	Stereochemistry of co-ordination no.2, 4 & 6
16.10.2014	21	Dr. Shalini Singh	I	Electrochemistry	Activity, activity coefficient transport number
17.10.2014	22	Dr. Shalini Singh	I	Electrochemistry	Determination of transport number - Hittorf's method
18.10.2014	13	Dr. S. K. Vernwal	III	Aromatic halogen compounds	Types of halogen compounds, chlorobenzene
27.10.2014		Dr. S. K. Vernwal		Monthly Evaluation	
28.10.2014	23	P. K. Verma	II	Co-ordination compounds	$[\text{Ag}(\text{NH}_3)_2]^+$, $[\text{Ag}(\text{CN})_2]^-$, $[\text{Ni}(\text{CN})_4]^{n-}$
30.10.2014	24	P. K. Verma	II	Co-ordination compounds	$[\text{Cu}(\text{NH}_3)_4]^{2+}$, $[\text{Zn}(\text{NH}_3)_4]^{2+}$, $[\text{MnO}_4]^-$
31.10.2014	23	Dr. Shalini Singh	I	Electrochemistry	Moving boundary method
01.11.2014	24	Dr. Shalini Singh	I	Electrochemistry	Application in conductivity measurements
07.11.2014	14	Dr. S. K. Vernwal	III	Aromatic halogen compounds	Benzyl chloride
08.11.2014		Dr. S. K. Vernwal		Class Teaching	
10.11.2014	25	P. K. Verma	II	Co-ordination compounds	$[\text{Fe}(\text{CN})_6]^{3-}$, $[\text{Fe}(\text{CN})_6]^{4-}$, $[\text{FeF}_6]^{3-}$
11.11.2014	26	P. K. Verma	II	Co-ordination compounds	$[\text{Fe}(\text{H}_2\text{O})_6]^{3+}$, $[\text{Fe}(\text{C}_2\text{O}_4)_3]^{3-}$, $[\text{Co}(\text{NH}_3)_6]^{3+}$

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

कक्षा : बी.एस-सी. भाग-दो			पाठ्यक्रम योजना : सत्र २०१४-२०१५		विषय : रसायन विज्ञान
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
12.11.2014	25	Dr. Shalini Singh	I	Electrochemistry	Conductometric titrations
13.11.2014	26	Dr. Shalini Singh	I	Electrochemistry	Types of reversible electrode
14.11.2014	15	Dr. S. K. Vernwal	III	Aromatic nitro compounds	Nitrobenzene, reduction of nitrobenzene
15.11.2014		Dr. S. K. Vernwal		Class Teaching	
17.11.2014	27	P. K. Verma	II	Co-ordination compounds	$[\text{Co}(\text{NH}_3)_6]^{3+}$, $[\text{Ni}(\text{NH}_3)_6]^{2+}$, $[\text{PbCl}_6]^{2-}$
18.11.2014	28	P. K. Verma	II	Co-ordination compounds	Isomerism
19.11.2014	27	Dr. Shalini Singh	I	Electrochemistry	Nerst equation
20.11.2014	28	Dr. Shalini Singh	I	Electrochemistry	Concentration cell without transference
21.11.2014	16	Dr. S. K. Vernwal	III	Aromatic nitro compounds	m-dinitrobenzene, T.N.T.
22.11.2014		Dr. S. K. Vernwal		Monthly Evaluation	
25.11.2014	29	P. K. Verma	II	Co-ordination compounds	Various types of isomerism
26.11.2014	30	P. K. Verma	II	Co-ordination compounds	Various types of isomerism
27.11.2014	29	Dr. Shalini Singh	I	Electrochemistry	Concentration cell with transference
28.11.2014	30	Dr. Shalini Singh	I	Electrochemistry	Liquid junction potential applications of concentration cell
29.11.2014	17	Dr. S. K. Vernwal	III	Aromatic amino compounds & diazonium salts	Aniline
01.12.2014		Dr. S. K. Vernwal		Class Teaching	
02.12.2014	31	P.K. Verma	II	Co-ordination compounds	Stereoisomerism in CN-4 and CN-6
03.12.2014	32	P. K. Verma	II	Non-aqueous solvents	General introduction classification of solvents
06.12.2014	31	Dr. Shalini Singh	I	Electrochemistry	Application of concentration cells
08.12.2014	32	Dr. Shalini Singh	I	Electrochemistry	Buffers types of buffers
09.12.2014	18	Dr. S. K. Vernwal	III	Aromatic amino compounds & diazonium salts	Benzyl amine
11.12.2014		Dr. S. K. Vernwal		Class Teaching	
12.12.2014	33	P. K. Verma	II	Non-aqueous solvents	Characteristic properties of solvents
15.12.2014	34	P. K. Verma	II	Non-aqueous solvents	Chemical reaction occurring in liquid NH_3
16.12.2014	33	Dr. Shalini Singh	I	Electrochemistry	Hydrolysis of salts
17.12.2014	34	Dr. Shalini Singh	I	Electrochemistry	Corrosion and its prevention
18.12.2014	19	Dr. S. K. Vernwal	III	Aromatic amino compounds	Basicity of aniline & toluidines

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

कक्षा : बी.एस-सी. भाग-दो		पाठ्यक्रम योजना : सत्र २०१४-२०१५		विषय : रसायन विज्ञान	
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
				& diazonium salts	
19.12.2014		Dr. S. K. Vernwal		Class Teaching	
20.12.2014	35	P. K. Verma	II	Non-aqueous solvents	Chemical reaction occurring in liquid NH ₃
22.12.2014	36	P. K. Verma	II	non-aqueous solvents	Chemical reaction occurring in liquid NH ₃
23.12.2014	35	Dr. Shalini Singh	I	Phase equilibria	Definition and one component system water system
24.12.2014	36	Dr. Shalini Singh	I	Phase equilibria	Sulphur system, Helium system
26.12.2014	20	Dr. S. K. Vernwal	III		
				Monthly Evaluation	
29.12.2014	37	P. K. Verma	II	Non aqueous solvents	Chemical reaction occurring in liquid NH ₃
30.12.2014	38	P. K. Verma	II	Non aqueous solvents	Chemical reaction occurring in liquid SO ₂
31.12.2014	37	Dr. Shalini Singh	I	Phase equilibria	Two component system Pb-Ag system
01.01.2015	38	Dr. Shalini Singh	I	Phase equilibria	Mg-Zn system, CuSO ₄ 5H ₂ O system
02.01.2015	21	Dr. S. K. Vernwal	III	Aromatic amino compounds & diazonium salts	Synthetic uses of benzene diazonium chloride
03.01.2015		Dr. S. K. Vernwal		Class Teaching	
06.01.2015	39	P. K. Verma	II	Non aqueous solvents	Chemical reaction occurring in liquid SO ₂
07.01.2015	39	Dr. Shalini Singh	I	Phase equilibria	Congruent and incongruent mp, phase transimition
08.01.2015	22	Dr. S. K. Vernwal	III	Aromatic sulphonic acids	Benzene sulphonic acid sulphanilic acid
09.01.2015	23	Dr. S. K. Vernwal	III	Aromatic sulphonic acids	Saccharine & chloramine-T
10.01.2015	24	Dr. S. K. Vernwal	III	Phenols	Acid character, reactions of phenol
12.01.2015		Dr. S. K. Vernwal		Class Teaching	
13.01.2015	40	P. K. Verma	II	Concept of electrode potential	E.M.F. diagram and their utility
17.01.2015	40	Dr. Shalini Singh	I	Phase equilibria	Nerst distribution law
19.01.2015	25	Dr. S. K. Vernwal	III	Phenols	Picric acid
20.01.2015	26	Dr. S. K. Vernwal	III	Aromatic alcohols, aldehydes & ketones	Benzyl alcohol
21.01.2015	27	Dr. S. K. Vernwal	III	Aromatic alchols, aldehydes & ketones	Benzaldehyde & Salcyladehyde
22.01.2015		Dr. S. K. Vernwal		Class Teaching	

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

कक्षा : बी.एस-सी. भाग-दो		पाठ्यक्रम योजना : सत्र २०१४-२०१५		विषय : रसायन विज्ञान	
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
23.01.2015	41	P. K. Verma	II	Concept of electrode potential	E.M.F. diagram and their utility
27.01.2015	41	Dr. Shalini Singh	I	Phase equilibria	Application of distribution law
28.01.2015	28	Dr. S. K. Vernwal	III	Aromatic alcohols, aldehydes & ketones	Acetophenone and benzophenone
29.01.2015	29	Dr. S. K. Vernwal	III	Aromatic acids	Preparation and properties of cinnamic acid
30.01.2015	30	Dr. S.K. Vernwal	III	Aromatic acids	Phthalic acid, salicylic acid
31.01.2015		Dr. S. K. Vernwal		Monthly Evaluation	
02.02.2015	42	P. K. Verma	II	Concept of electrode potential	E.M.F. diagram and their utility
03.02.2015	42	Dr. Shalini Singh	I	Phase equilibria	Application of distribution law
04.02.2015	31	Dr. S. K. Vernwal	III	Aromatic acids	Acid strength of benzoic acid & substituted benzoic acids
05.02.2015	32	Dr. S. K. Vernwal	III	Polynuclear hydrocarbons	Non condensed system : Biphenyl
06.02.2015	33	Dr. S.K. Vernwal	III	Polynuclear hydrocarbons	Condensed system naphthalene & derivatives
08.02.2015	34	Dr. S. K. Vernwal	III	Polynuclear hydrocarbons	Naphthols, naphthylamines, tetraline & decaline
09.02.2015	35	Dr. S. K. Vernwal	III	Heterocyclic compounds	Preparation and reactions of furan
10.02.2015	36	Dr. S. K. Vernwal	III	Heterocyclic compounds	Pyrrole and thiophene
11.02.2015	37	Dr. S. K. Vernwal	III	Heterocyclic compounds	Pyridine
12.02.2015	38	Dr. S. K. Vernwal	III	Numerical problems	Determination of structure based on chemical reactions
13.02.2015	39	Dr. S. K. Vernwal	III	Numerical problems	Determination of structure based on chemical reactions