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

कक्षा : बी.एस-सी. भाग-दो					विषय : रसायन विज्ञान
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
15.07.2013	1	Dr. Shalini Singh	I	Thermodynamics-I	Introduction, definitions of terms : system
16.07.2013	2	Dr. Shalini Singh	I	Thermodynamics-I	Surrounding, intensive and extensive properties
17.07.2013	1	Dr. S. K. Vernwal	III	Carbohydrates	Classification
18.07.2013	2	Dr. S. K. Vernwal	III	Carbohydrates	Ring structure of glucose
19.07.2013	1	Dr. Manisha Kapoor	II	Transition elements	Introduction, position in periodic table
20.07.2013	2	Dr. Manisha Kapoor	II	Transition elements	Electronic configuration
22.07.2013	3	Dr. Shalini Singh	I	Thermodynamics	State and Path functions and their differentials
23.07.2013	4	Dr. Shalini Singh	I	Thermodynamics	Reversible and irreversible processes, concept of heat & work
24.07.2013	3	Dr. S. K. Vernwal	III	Carbohydrates	Ring structure of fructose
25.07.2013	4	Dr. S. K. Vernwal	III	Carbohydrates	Interconversions in the carbohydrate series
26.07.2013	3	Dr. Manisha Kapoor	II	Transition Elements	Atomic and ionic radii
27.07.2013	4	Dr. Manisha Kapoor	II	Transition Elements	Variable oxidation states
29.07.2013	5	Dr. Shalini Singh	I	Thermodynamics	Ist law, concepts of U, H, Cp, Cv and their
30.07.2013	6	Dr. Shalini Singh	I	Thermodynamics	Relationship between Cp and Cv
31.07.2013	5	Dr. S. K. Vernwal	III	Carbohydrates	Ruff degration & Killiani Fishes synthesis
01.08.2013	6	Dr. S. K. Vernwal	III	Aromatihydyrocarbons	General Methods of preparation
03.08.2013	5	P.K. Verma	II	Transition elements	Ability to form complexes
05.08.2013	7	Dr. Shalini Singh	I	Thermodynamics-I	Calculation of w,q,au, du for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process
06.08.2013	8	Dr. Shalini Singh	I	Thermodynamics-I	calculation of w,q,au, du for the expansion of ideal gases under isothermal and adiabatic conditions for reversible process
07.08.2013	7	Dr. S. K. Vernwal	III	Aromatic hydrocarbons	Molecular orbital structure of benezene
08.08.2013		Dr. S. K. Vernwal		**Class Teaching**	
10.08.2013	6	Dr. Manisha Kapoor	II	Transition elements	Formation of coloured ions
12.08.2013	9	Dr. Shalini Singh	I	Thermodynamics-I	Thermochemistry-standard states
13.08.2013	10	Dr. Shalini Singh	I	Thermodynamics-I	Thermochemistry-standard states

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14.08.2013	8	Dr. S. K. Vernwal	III	Aromatic hydrocarbons	Aromaticity
16.08.2013	7	P.K. Verma	II	Transistion elements	Magnetic (us & ueff) behaviour
17.08.2013		Dr. Manisha Kapoor	II	**Class Teaching**	
19.08.2013	11	Dr. Shalini Singh	I	Thermodynamics-I	Hess's law of constant heat summation and its application, bond energy.
20.08.2013	12	Dr. Shalini Singh	I	Thermodynamics-I	Hess's law of constant heat summation and its application, bond energy
22.08.2013	9	Dr. S. K. Vernwal	III	Mechanism of aromatic Electrophilic substitutions	Halogenation and nitration
23.08.2013	8	Dr. Manisha Kapoor	II	Transistion elements	Catalytic behaviour
24.08.2013	9	P.K. Verma	II	Transistion elements	General comparative treatment of 4d & 5d elements with their 3d analogues with respect to ionic radii, oxidation states & magnetic properties
26.08.2013		Dr. Shalini Singh	I	**Evaluation**	
27.08.2013	13	Dr. Shalini Singh	I	Thermodynamics-I	Kirchoff's equation
29.08.2013	10	Dr. S. K. Vernwal	III	Mechanism of aromatic eletrophilic substitution	Sulphonation, frieded-craft's alkylation & acylation
30.08.2013	10	P.K. Verma	II	Acid base concept	Introduction, lewis concept
31.08.2013	11	P.K. Verma	II	Acid base concept	Classification of hard & soft acids & bases
02.09.2013	14	Dr. Shalini Singh	I	Thermodynamics-II	Concept of entropy, entropy as a function of state
03.09.2013		Dr. Shalini Singh	I	**Class Teaching**	
04.09.2013	11	Dr. S. K. Vernwal	III	Mechanism of aromatic electrophilic substitutions	Orientation in aromatic substitution
05.09.2013	12	Dr. S. K. Vernwal	III	Mechanism of aromatic electrophilic substitution	Ortho/para ratio
06.09.2013	12	P.K. Verma	II	Acid base concept	Applications of HSAB principle
07.09.2013	13	P.K. Verma	II	Acid base concept	Applications of HSAB principle
09.09.2013	15	Dr. Shalini Singh	I	Thermodynamics-II	Entropy as a function of V & T, P & T

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10.09.2013		Dr. Shalini Singh	I	**Class Teaching**	
11.09.2013	13	Dr. S. K. Vernwal	III	Aromatic halogen compounds	Types of halogen compounds
12.09.2013	14	Dr. S. K. Vernwal	III	Aromatic halogen compounds	Chlorobenzene
13.09.2013	14	P.K. Verma	II	Co-ordination compounds	Introduction, definition & classification of ligands
14.09.2013	15	P.K. Verma	II	Coordination compounds	Werner's postulates
16.09.2013	16	Dr. Shalini Singh	I	Thermodynamics-II	Entropy change in physical process
17.09.2013		Dr. Shalini Singh	I	**Class Teaching**	
20.09.2013	16	P.K. Verma	II	Coordination compounds	Sidwick's effective atomic number concept & limitation
21.09.2013	17	P.K. Verma	II	Coordination compounds	Valence bond theory
23.09.2013	17	Dr. Shalini Singh	I	Thermodynamics-II	Gibb's and Helmholtz function
24.09.2013	18	Dr. Shalini Singh	I	Thermodynamics-II	Criteria for spontaneity in terms of U, G, A,S
25.09.2013	15	Dr. S. K. Vernwal	III	Aromatic halogen compounds	Benzyl chloride
26.09.2013		Dr. S. K. Vernwal	III	**Evaluation**	
27.09.2013	18	P.K. Verma	II	Coordination compound	Valence bond theory
28.09.2013	19	P.K. Verma	II	Coordination compound	Chelate effect
30.09.2013	19	Dr. Shalini Singh	I	Thermodynamics-II	Concept of chemical potential
01.10.2013	20	Dr. Shalini Singh	I	Chemical Equilbrium	Equilbrium constant and free energy
03.10.2013	16	Dr. S. K. Vernwal	III	Aromatic nitro compounds	Nitro benze
07.10.2013		Dr. Shalini Singh	I	Class Teaching	
08.10.2013	21	Dr. Shalini Singh	I	Chemical equilbrium	The rmodynamic derivation of law of mass action
09.10.2013	17	Dr. S. K. Vernwal	III	Aromatic nitro compounds	Reduction of nitrobenzene
10.10.2013	18	Dr. S. K. Vernwal	III	Aromatic nitro compounds	m-dinitrobenzene & T.N.T.
11.10.2013	20	P.K. Verma	II	Coordination compounds	Nomenclature for only mono and dinuclear complexes
17.10.2013	19	Dr. S. K. Vernwal	III	Aromatic amino compounds & diazonium salts	Aniline
19.10.2013		P.K. Verma	II	**Class Teaching**	
21.10.2013	22	Dr. Shalini Singh	I	Chemical equilibrium	Le-chattelier's principle and its application
22.10.2013	23	Dr. Shalini Singh	I	**Class Teaching**	

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23.10.2013	20	Dr. S. K. Vernwal	III	Aromatic amino compounds & diazonium salts	Benzyl amine
24.10.2013	21	Dr. S. K. Vernwal	III	Aromatic amino compounds & diazonium salts	Basicity of aniline & toluidines
25.10.2013	21	P.K. Verma	II	Coordination compounds	Stereochemistry of coordination no. 2,4 & 6
26.10.2013		P.K. Verma		**Class Teaching**	
28.10.2013	24	Dr. Shalini Singh	I	Electrochemistry	Conduction-metals and electrolytes in solutions
29.10.2013	25	Dr. Shalini Singh	I	Electrochemistry	Conduction-metals and electrolytes in solutions
30.10.2013	22	Dr. S. K. Vernwal	III	Aromatic amino compounds & diazonium salts	Benzene diazonium chloride
06.11.2013	23	Dr. S. K. Vernwal	III	Aromatic amino compounds & diazonium salts	Synthetic applications of benzene diazonium chloride
07.11.2013	24	Dr. S. K. Vernwal	III	Aromatic amino compounds & diazonium salts	Benzene diazonium chloride
08.11.2013		Dr. Manisha Kapoor	II	**Class Teaching**	
09.11.2013	22	P.K. Verma	II	Coordination compounds	$[Ag(NH_3)_2^+]$, $[AgCN)_2]$, $[Ni(CN)_4]^{2-}$
11.11.2013	26	Dr. Shalini Singh	I	Electrochemistry-I	Specific conductance, equivalent conductance
12.11.2013	27	Dr. Shalini Singh	I	Electrochemistry-I	Its measurement and effect of dilution
15.11.2013	23	P.K. Verma	II	Coordination compounds	$[Cu(NH_3)^{2+}]$, $[Zn(NH_3)_4]^{2+}$, $[MnO_4]^-$
16.11.2013	23	P.K. Verma	II	Coordination compounds	$[Fe(CN)_6]^{3-}$, $[Fe(CN)_6]^{4-}$, $[FeF_6]^{3-}$
18.11.2013		Dr. Shalini Singh	I	**Class Teaching**	
19.11.2013	28	Dr. Shalini Singh	I	Electrochemistry-I	Migration of ions, kohlrausch law
20.11.2013	25	Dr. S.K. Vernwal	III	Aromatic sulphonic acids	Benzene sulphonic acid
21.11.2013	26	Dr. S.K. Vernwal	III	Aromatic sulphonic acids	Sulphanilic acid, saccharine & chloramine-T
22.11.2013	25	P. K. Verma	II	Coordination compounds	$[Fe(H_2O)_6]^{3+}$, $[F(C_2O_4)_3]^{3-}$, $[Co(NH_3)_6]^{3+}$
23.11.2013	26	P. K. Verma	II	Coordination compounds	$[Co(en)_3]^{3+}$, $[(Ni(NH_3)_6]^{2+}$, $[PbCl_6]^{2-}$
25.11.2013		Dr. Shalini Singh		**Evaluation**	
26.11.2013	29	Dr. Shalini Singh	I	Electrochemistry-I	Arrhenius theory of electrolyte, strong and weak eletrolyte
27.11.2013	27	Dr. S. K. Vernwal	III	Phenols	Acid character, reactions of phenol

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28.11.2013	28	Dr. S. K. Vernwal	III	Phenols	Picric acid
29.11.2013	27	P.K.Verma	II	Coordination compounds	Various types of isomerism
30.11.2013	28	P.K.Verma	II	Coordination compounds	Stereoisomerism in C.N. 4 and C.N.6
02.12.2013		Dr. Shalini Singh	I	**Class Teaching**	
03.12.2013	29	Dr. Shalini Singh	I	Electrochemistry-I	Ostwald's dilution law, its need and limitations
06.12.2013	29	P. K. Verma	II	Nonaqueous solvents	General introduction, classification of sovents
07.12.2013	30	Dr. Manisha Kapoor	II	Nonaqueous solvents	Characteristic proportion of solvents
09.12.2013	30	Dr. Shalini Singh	I	Electrochemistry-I	Debye-Huckel-Onsager's equation, activity
11.12.2013	29	Dr. S.K. Vernwal	III	Aromatic alcohols, aldehyde & ketones	Benzylcohol
12.12.2013		Dr. S.K. Vernwal	III	**Class Teaching**	
13.12.2013	31	P. K. Verma	II	Nonaqueous solvents	Chemical reaction ocurring in liquid NH_3
14.12.2013	32	P. K. Verma	II	Nonaqueous solvents	Chemical reaction ocurring in liquid NH_3
16.12.2013	31	Dr. Shalini Singh	I	Electrochemistry-I	Activity coefficient, transport number
17.12.2013	32	Dr. Shalini Singh	I	Electrochemistry-I	Definition and its determination
18.12.2013	30	Dr. S. K. Vernwal	III	Aromatic alcohols, aldehydes & ketones	Benzalehyde & salicyladehyde
19.12.2013		Dr. S. K. Vernwal	III	**Class Teaching**	
20.12.2013	33	P. K. Verma	II	Nonaqueous solvents	Chemical reactions occuring in lig NH_3
21.12.2013	34	P. K. Verma	II	Nonaqueous solvents	Chemical reactions occuring in lig NH_3
23.12.2013	33	Dr. Shalini Singh	I	Electrochemistry-I	Hittorf's method
24.12.2013	34	Dr. Shalini Singh	I	Electrochemistry-I	Moving boundry method
26.12.2013	31	Dr. S.K. Vernwal	III	Aromatic alcohols aldehydes & ketones	Acetophenone & benzophenone
27.12.2013		P. K. Verma		**Evaluation**	
28.12.2013	35	P. K. Verma	II	Nonaqueous solvents	Chemicals reactions occuring in lig SO_2
30.12.2013	35	Dr. Shalini Singh	I	Electrochemistry-I	Applications of conductivity measurement
31.12.2013	36	Dr. Shalini Singh	I	Electrochemistry-I	Applications of conductivity measurement
01.01.2014	32	Dr. S.K. Vernwal	III	Aromatic acids	Preparation & properties of cinnamic acid
02.01.2014	33	Dr. S.K. Vernwal	III	Aromatic acids	Phthalic acid & salicylic acid

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03.01.2014		P.K. Verma	I	**Class Teaching**	
04.01.2014		P.K. Verma	I	Nonaquecous solution	 2
06.01.2014	37	Dr. Shalini Singh	I	Electrochemistry-I	Applications of conductomeric measurements
07.01.2014	38	Dr. Shalini Singh	I	Electrochemistry-I	Conductometric titration
08.01.2014	34	Dr. S.K. Vernwal	III	Aromatic acids	Acid strength of benzoic acid, p-toluic acid
09.01.2014	35	Dr. S. K. Vernwal	III	Aromatic acids	p-nitrobenzoic acid & p-chlorobenzoic acid
10.01.2014		P.K. Verma	II	**Class Teaching**	
11.01.2014	37	P.K. Verma	II	Concept of eletrode potential	EMF diagrams and their utility
13.01.2014	39	Dr. Shalini Singh	I	Electrochemistry-I	Types of reversible electrodes
16.01.2014	36	Dr. S. K. Vernwal	III	Polynuclear hydrocarbons	Non-condensed system biphenyl
17.01.2014	38	P.K. Verma	II	Concept of electrode potential	EMF diagram and their utility
18.01.2014	39	P.K. Verma	II	Concept of electrode potential	EMF diagram and their utility
20.01.2014		Dr. Shalini Singh	I	**Class Teaching**	
21.01.2014	40	Dr. Shalini Singh	I	Electrochemistry-II	Electrode reaction nerst equation
22.01.2014	37	Dr. S. K. Vernwal	III	Polynuclear hydrocarbons	Condensed system naphthalene & derivatives
23.01.2014	38	Dr. S. K. Vernwal	III	Polynuclear hydrocarbons	Naphthals, naphthyl a mines, tetraline & decaline
24.01.2014	40	P.K. Verma	II	Concept of electrode potential	EMF diagram and their utility
25.01.2014	41	Dr. Shalini Singh	I	Electrochemistry-II	Derivation of cell EMF, single electrode potential
27.01.2014	42	Dr. Shalini Singh	I	Electrochemistry-II	Standard hydrogen electrode standard electrode potential
28.01.2014		Dr. Shalini Singh	I	**Evaluation**	
29.01.2014	39	Dr. S.K. Vernwal	III	Heterocylic compounds	Preparation & reactions of furan
30.01.2014	40	Dr. S.K. Vernwal	III	Heterocylic compounds	Pyrrole & thiophene
31.01.2014	43	Dr. Shalini Singh	I	Electrochemistry-I	Sign convention, electrochemical series and its significance
01.02.2014	44	Dr. Shalini Singh	I	Electrochemistry-II	Electrolytic and galvanic cells
03.02.2014	45	Dr. Shalini Singh	I	Electrochemistry-II	Reversible, irreversible cell
04.02.2014	46	Dr. Shalini Singh	I	Electrochemistry-II	Representation of cell
05.02.2014	41	Dr. S.K. Vernwal	III	Heterocyclic compounds	Pyridine
06.02.2014	42	Dr. S.K. Vernwal	III	Heterocyclic compounds	Properties of pyridine

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07.02.2014	47	Dr. Shalini Singh	I	Electrochemistry-II	Concentration cell with and without transference transfernice
08.02.2014	48	Dr. Shalini Singh	I	Electrochemistry-II	Liquid junction potential
10.02.2014	49	Dr. Shalini Singh	I	Electrochemistry-II	Application of comcentration cells
11.02.2014	50	Dr. Shalini Singh			
12.02.2014	43	Dr. S. K. Vernwal	III	Numerical problems	Determination of structure based on chemical reactions
13.02.2014	44	Dr. S. K. Vernwal	III	Numerical problems	Determination of structure based on chemical reactions
14.02.2014	51	Dr. Shalini Singh	I	Electrochemistry-II	Applications of concentration cells
15.02.2014	52	Dr. Shalini Singh	I	Electrochemistry-II	Applications of concentration cells
*	53	Dr. Shalini Singh	I	Electrochemistry-II	Buffers-mechanism, Hazel Hydrolysis of salts
*	54	Dr. Shalini Singh	I	Electrochemistry-II	Hydrolysis of salts, corrosion and its prevention
*	55	Dr. Shalini Singh	I	Phase equilbrium	Definitions
*	56	Dr. Shalini Singh	I	Phase equilbrium	One component system water system
*	57	Dr. Shalini Singh	I	Phase equilbrium	Sulpher system
*	58	Dr. Shalini Singh	I	Phase equilbrium	Helium system two component system
*	59	Dr. Shalini Singh	I	Phase equilbrium	Pb-Ag system, Mg-Zn system (congruent-m.p.)
*	60	Dr. Shalini Singh	I	Phase equilbrium	$\ldots\ldots\ldots\ldots_4 5H_2o$ system
*	61	Dr. Shalini Singh	I	Phase equilbrium	Nerst distribution law
*	62	Dr. Shalini Singh	I	Phase equilbrium	And its application