

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

कक्षा : बी.एस-सी. भाग-दो			पाठ्यक्रम योजना : सत्र २०१५-२०१६		विषय : रसायन विज्ञान
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
16.07.15	1	Dr. S. K. Vernwal	III	Carbohydrates	Classification
20.07.15	2	Dr. S. K. Vernwal	III	Carbohydrates	Ring structure of glucose
21.07.15	1	P. K. Verma	II	Transistion elements	Introduction, position in periodic table
22.07.15	2	P. K. Verma	II	Transistion elements	Electronic configuration
23.07.15	3	P. K. Verma	II	Transistion elements	Atomic & ionic radii
24.07.15		P. K. Verma	II	Class Teaching	
25.07.15	3	Dr. S. K. Vernwal	III	Carbohydrates	Ring structure of fructose
27.07.15	4	Dr. S. K. Vernwal	III	Carbohydrates	Inverconversions in the carbohydrates series
					degradation
28.07.15	5	Dr. S. K. Vernwal	III	Carbohydrates	Kiliani-Fischer synthesis and full
29.07.15	4	P. K. Verma	II	Transistion elements	Variable oxidation states
30.07.15	5	P. K. Verma	II	Transistion elements	Ability to form complexes
31.07.15		Dr. S. K. Vernwal		Class Teaching	
01.08.15	6	P. K. Verma	II	Transition Elements	Formation of Coloured ions
03.08.15	7	P. K. Verma	II	Transition Elements	Manegatic behaviour (Hs&Heff)&Catalytic
					behaviour
04.08.15	1	Dr. P. K. Rao	I	Thermodynamics - I	Introduction defination of terms
05.08.15	2	Dr. P. K. Rao	I	Thermodynamics - I	State of path Function & Their differential
					Concept of Heat & Work
06.08.15	6	Dr. S. K. Vernwal	III	Aeromatic Hydrocarbons	General methods of Prepration
07.08.15		Dr. S. K. Vernwal		Class .Teaching .	
08.08.15	8	P. K. Verma	II	Transition Elements	General Comparative treatmentof 4d &5d
					elements
10.08.15	9	P. K. Verma	II	Acid base concept	Inrtroduction , Lewis Concept
11.08.15	3	Dr. P. K. Rao	I	Thermodynamics -I	Ist Law Concept of U,H,Cp,Cv, relationship
					b/w Cp & Cv
12.08.15	4	Dr. P. K. Rao	I	Thermodynamics - I	Calcution of W,g & dv,dh for the expeansion
					of ideal Gases under adiabatic & Isothermale
					exp.
13.08.15	7	dr. S. K. Vernwal	III	Aromatic Hydrocarbons	Molecular Orbital Structure of benzene

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14.08.15		Dr. S. K. Vernwal		Class . Teaching.	
17.08.15	5	Dr. P. K. Rao	I	Thermodynamics - I	Thermochemestary , Standard state
18.08.15	10	P. K. Verma	II	Acid base Concept	Classification of Hard & Soft Acid & Bases
20.08.15	6	Dr. P. K. Rao	I	Thermodynamics - I	Hess Law of Constt. Heat Sumantion & Its
					Application
21.08.15	7	Dr. P. K. Rao	I	Thermodynamics - I	Bond energy , Kirchoff's equation
22.08.15	8	Dr. S. K. Vernwal	III	Aromatic Hydrocarbon	Aeromaticity
23.08.15		Dr. S. K. vernwal		Monthly Test	
24.08.15	8	Dr.P. K. Rao	I	Thermodynamics - II	Entropy as a state function & V & T , P & T
25.08.15	11	P . K. Verma	II	Acid base concept	Classification of Hard 7 Soft Acid & Bases
26.08.15	9	Dr.P. K. Rao	I	Thermodynamics - II	Entropy change in physical Process,Gibb's
					Function
27.08.15	10	Dr.P. K. Rao	I	Thermodynamics - II	Helmholtz function criteria for spontaneity
					in terms of U, G , H , A
31.08.15	11	Dr.P. K. Rao	I	Thermodynamics - II	Concept of Chemical Potential , equilibrium
					constant & free energy
01.09.15		Dr. S. K. Vernwal		Class Teaching	
03.09.15	12	P . K . Verma	II	Acid Base concept	Application of HSAB Principle
04.09.15	13	P . K . Verma	II	Acid Base concept	Application of HSAB Principle
07.09.15	12	Dr. P. K . Rao	I	Chemical equilibrium	Thermodynamic derivation of lawof mass
					action , Le - Chatlier principle
08.09.15	13	Dr.P. K. Rao	I	Chemical equilibrium	Application of Le Chatelier principle
09.09.15	9	Dr. S . K. Vernwal	III	Mechanism of aromatic	Halogenation and nitration
				elecrophilic substitutions	
10.09.15		Dr. S . K . Vernwal		Class Teaching	
11.09.15	14	P . K . Verma	II	Coordination compounds	Introduction difination classification of
					ligands
12.09.15	15	P . K . Verma	II	Coordination compounds	Werner's postulates
14.09.15	14	Dr.P. K. Rao	I	Electrochemistry	Conduction in metals and solutions
15.09.15	15	Dr.P. K. Rao	I	Electrochemistry	Specific , equivalent conduance and

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					effect of dilution on it
16.09.15	10	Dr. S . K . Vernwal	III	Mechanism of aromatic	Suphonation , Friedel - Craft's alkylation
				electrophilic substitutions	
18.09.15		Dr. S . K . Vernwal		Class Teaching	
19.09.15	16	P . K . Verma	II	Co - ordination compounds	Sidgwick's effectiv atomic number concept
21.09.15	17	P . K . Verma	II	Co - ordination compounds	Valence bond theory
22.09.15	16	Dr . P . K . Rao	I	Electrochemistry	Migration of ions , Kohlaursch's Law
23.09.15	17	Dr . P . K . Rao	I	Electrochemistry	Arehenius theory of electrolytes weak &
					strong electrolytes
24.09.15	11	Dr. S . K . Vernwal	III	Mechanism of aromatic	Orientation in aromatic substitutions
				electrophilic substitution	
26.09.15		Dr. S . K . Vernwal		Monthly Evaluation	
28.09.15	18	P . K . Verma	II	Co - ordination compounds	Valence bond theory
29.09.15	19	P . K . Verma	II	Co - ordination compounds	Chalate effect
01.10.15	18	Dr. P . K . Rao	I	Electrochemistry	Ostwald's dilution law and its limitations
03.10.15	19	Dr. P . K . Rao	I	Electrochemistry	Debye - Huckel Onsanger equation , conduction of strong electrolyte
05.10.15	12	Dr. S . K . Vernwal	III	Mechanism of aromatic	Ortho - para ratio
				electrophilic substitutions	
06.10.15		Dr. S . K . Vernwal		Class Teaching	
07.10.15	20	P . K . Verma	II	Co- ordination compounds	Nomenclature of only mono and
					dinuclear complexes
08.10.15	21	P . K . Verma	II	Co - ordination compounds	Stereochemistry of co - ordination no.
					2 ,4 & 6
09.10.15	20	Dr . P . K . Rao	I	Electrochemistry	Activity , activity coefficient transport
					number
10.10.15	21	Dr . P . K . Rao	I	Electrochemistry	Determination of transport number
					Hittorf's method
14.10.15	13	Dr . S . K . Vernwal	III	Aromatic halogen compounds	Types of halogen compounds
					chlorobenzene

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15.10.15		Dr. S. K. Vernwal		Monthly Evaluation	
16.10.15	22	P. K. Verma	II	Co - ordination compounds	[Ag(NH ₃) ₂] ⁺ , [Ag(CN)] ₂ , [Ni(CN) ₄] ⁿ
17.10.15	23	P. K. Verma	II	Co - ordination compounds	[Cu(NH ₃) ₄] ₂ , [Zn(NH ₃) ₂] ⁺ , [MnO ₄]
19.10.15	22	Dr. P. K. Rao	I	Electrochemistry	Moving boundary Method's
28.10.15	23	Dr. P. K. Rao	I	Electrochemistry	Application in conductivity measurments
29.10.15	14	Dr. S. K. Vernwal	III	Aromatic halogen compounds	Benzyl chloride
30.10.15		Dr. S. K. Vernwal		Class Teaching	
31.10.15	24	P. K. Verma	II	Co - ordination compounds	[Fe(CN)] ₃ - [Fe(CN) ₆] ₄ , [FeF ₆] ₃ -
02.11.15	25	P. K. Verma	II	Co - ordination compounds	[Fe(H ₂ O) ₆] ₃ ⁺ , [Fe(C ₂ O ₄) ₃] ₃ -[Co(NH ₃)] ₃ ⁺
03.11.15	24	Dr. P. K. Rao	I	Electrochemistry	Conductometric Litrations
04.11.15	25	Dr. P. K. Rao	I	Electrochemistry	Types of reversible electrode
05.11.15	15	Dr. S. K. Vernwal	III	Aromatic nitro compounds	Nitrobenzene , reduction of nitrobenzene
06.11.15		Dr. S. K. Vernwal		Class Teaching	
07.11.15	26	P. K. Verma	II	Co - ordination Compounds	[Co(en) ₃] ₃ ⁺ [Ni(NH ₃) ₆] ₂ ⁺ [PbCl ₆] ₂ -
14.11.15	27	P. K. Verma	II	Co - ordination Compounds	Isomerism
16.11.15	26	Dr. P. K. Rao	I	Electrochemistry	Nerst equation
18.11.15	27	Dr. P. K. Rao	I	Electrochemistry	Concentration cell Without transference
19.11.15	16	Dr. S.K. Vernwal	III	Aromatic nitro compounds	m - dinitrobenzene , T.N.T.
20.11.15		Dr. S. K. Vernwal		Monthly Evaluation	
21.11.15	28	P. K. Verma	II	Co - ordination compounds	Various types of isomerism
23.11.15	29	P. K. Verma	II	Co - ordination compounds	Various types of isomerism
24.11.15	28	Dr. P. K. Rao	I	Electrochemistry	Concentration Cell with transference
25.11.15	29	Dr. P. K. Rao	I	Electrochemistry	Liquid Function potential Applications of concentration cell
26.11.15	17	Dr. S. K. Vernwal	III	Aromatic Amino compounds	Aniline
				Diatonium salts	
27.11.15		Dr. S. K. Vernwal		Class Teaching	
28.11.15	30	P. K. Verma	II	Co-ordination compounds	Stereoisomerism in CN - 4 and CN - 6
30.11.15	31	P. K. Verma	II	Mon - aqueaes solvents	General introduction classification of solvents

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01.12.15	30	Dr. P. K. Rao	I	Electrochemistry	Application of concentration cell
03.12.15	30	Dr. P. K. Rao	I	Electrochemistry	Buffers types of buffers
07.12.15	18	Dr. S. K. Vernwal	III	Aromatic Amino compounds	Benzyl amine
				& diazonium salts	
08.12.15		Dr. S. K. Vernwal		Class Teaching	
09.12.15	32	P. K. Verma	II	Non - aqueous solvents	Characteristic proportion of solvents
11.12.15	33	P. K. Verma	II	Non - aqueous solvents	Chemical reaction occurring in liquid
12.12.15	32	Dr. P. K. Rao	I	Electrochemistry	Hydrolysis of salts
14.12.15	33	Dr. P. K. Rao	I	Electrochemistry	Corrosion and its presentation
15.12.15	19	Dr. S. K. Vernwal	III	Aromatic amino compounds	Basicity of aniline toulidines
				& Diazonium salts	
16.12.15		Dr. s. K. Vernwal		Class Teaching	
17.12.15	34	P. K. Verma	II	Non- aqueous solvents	Chemical reaction occurring in liquid NH ₃
18.12.15	35	P. K. Verma	II	Non- aqueous solvents	Chemical reaction occurring in liquid NH ₃
19.12.15	34	Dr. P. K. Rao	I	Phase equilibria	Difinition and one componant system water
					system
21.12.15	35	Dr. P. K. Rao	I	Phase equilibria	Sulphur system, Helium system
22.12.15	20	Dr. S. K. Vernwal	III	Aromatic amino compounds	Benzene diazonium chloride
				& dizonium salts	
28.12.15		Dr. S. K. Vernwal		Monthly Evaluation	
29.12.15	36	P. k. Verma	II	Non aqueous solvents	Chemical reaction occurring in liquid NH ₃
30.12.15	37	P. K. verma	II	Non aqueous solvents	Chemical reaction occurring in liquid SO ₂
31.12.15	36	Dr. P. K. Rao	I	Phase equilibria	Two componant system Pb - Ag system
01.01.16	37	Dr. P. K. Rao	I	Phase equilibria	Mg-Zn system, CuSO ₄ , 5H ₂ O system
02.01.16	21	Dr. S. K. Vernwal	III	Aromatic amino compounds	Synthetic uses of benzene diazonium
				& diazonium salts	chloride
04.01.16		Dr. S. K. Vernwal		Class Teaching	
06.01.16	38	P. K. Verma	II	Non aqueous solvents	Chemical reaction occurring in liquid SO ₂
07.01.16	38	Dr. P. K. Rao	I	Phase equilibria	Congruent and incongruent mp, phase
					Transmition

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08.01.16	22	Dr . S . K . Vernwal	III	Aromatic sulphonnic Acids	Benzene solphonic acid sulphanilie acid
09.01.16	23	Dr . s . K . Vernwal	III	Phenols	Acid character , reation of phenols
12.01.16		Dr . S . K . Vernwal		Class Teaching	
13.01.16	39	P . K . Verma	II	Concept of electro d potential	E . M . F .diagram and their utility
16.01.16	39	Dr . P . K . Rao	I	Phase equilibria	Nerest distribution law
18.01.16	25	Dr . S . K . Vernwal	III	Phenoles	Picric acid
19.01.16	26	Dr . S . K . Vernwal	III	Aromatic alcohols ,	Benzyl alcohol
				aldehydes & ketones	
20.01.16	27	Dr . S . K . Vernwal	III	Aromatic alchols, aldehydes	Benzaldehyde & salcyladehyde
				& ketones	
21.01.16		Dr . S . K . Vernwal		Class Teaching	
22.01.16	40	P . K . Verma	li	Concept of electrode potential	E . M . F . Diagram and their utility
23.01.16	40	Dr . P . K . Rao	I	Phase equilibria	Application of distribution law
25.01.16	28	Dr . S . K . Vernwal	III	Aeromaticalcohols,	Acetophenone and benzophenone
				aldehydes & Ketones	
27.01.16	29	Dr . S . K . Vernwal	III	Aromatic acids	Preparation and properties of cinnamic acid
28.01.16	30	Dr . S . K . Vernwal	III	Aromatic acids	Phathalic acid , salicylic acid
29.01.16		Dr . S . K . Vernwal		Monthly Evaluation	
30.01.16	41	P . K . Verma	II	Concept of electrode	E . M . F . diagram and their utility
				Potential	