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दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
16.07.2012	1.	Dr. Manisha Kapoor	II	Concept of electrode potential	Concept & measurement of electrode potential
17.07.2012	2	Dr. Manisha Kapoor	II	Concept of electrode potential	E.M.F. diagram & Nernst equation
18.07.2012	1.	Dr. K. S. Yadav	III	Carbohydrates	Classification and configuration
19.07.2012	2.	Dr. K. S. Yadav	III	Carbohydrates	Ring structure of glucose
20.07.2012	1.	Dr. Shalini Singh	I	Thermodynamics	Introduction, definition
21.07.2012	2.	Dr. Shalini Singh	I	Thermodynamics	State and path function.
23.07.2012	3.	Dr. Manisha Kapoor	II	Concept of electrode potential	Electro Chemical Series
25.07.2012	3.	Dr. K. S. Yadav	III	Carbohydrates	Ring structure of fructose
26.07.2012	4.	Dr. K. S. Yadav	III	Carbohydrates	Ruff degradation and Killiani-Fischer synthesis
27.07.2012	3.	Dr. Shalini Singh	I	Thermodynamics	Reversible and irreversible processes, concept of work and heat.

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28.07.2012	4.	Dr. Shalini Singh	I	Thermodynamics	First law of thermodynamics, enthalpy
30.07.2012	4.	Dr. Manisha Kapoor	II	Concept of electrode potential	Application of E.C.S.
31.07.2012	5.	Dr. Manisha Kapoor	II	Concept of electrode potential	Numerical problems on E.C.S.
01.08.2012	5.	Dr. K. S. Yadav	III	Carbohydrates	Chemical properties
03.08.2012	5.	Dr. Shalini Singh	I	Thermodynamics	C_p , C_v and their relation
04.08.2012		Dr. Shalini Singh	I	Class Teaching	
06.08.2012	6.	Dr. Manisha Kapoor	II	Transition elements	Introduction & position in periodic table
07.08.2012	7.	Dr. Manisha Kapoor	II	Transition elements	Electronic configuration, atomic radii and oxidation state
08.08.2012	6.	Dr. K. S. Yadav	III	Carbohydrates	Chemical properties
09.08.2012	7.	Dr. K. S. Yadav	III	Carbohydrates	Mutarotation
11.08.2012		Dr. Shalini Singh	I	Class Teaching	
13.08.2012	8.	Dr. Manisha Kapoor	II	Transition elements	Formation of coloured ions and complexes

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14.08.2012	9.	Dr. Manisha Kapoor	II	Transition elements	Magnetic behaviour, catalytic behaviour & interstitial compounds.
18.08.2012		Dr. Shalini Singh	I	Class Teaching	
20.08.2012	10.	Dr. Manisha Kapoor	II	Transition elements	4d & 5d transition series and their properties
21.08.2012	11.	Dr. Manisha Kapoor	II	Transition elements	Differences of 3d series with 4d and 5d series elements
22.08.2012	8.	Dr. K. S. Yadav	III	Polynuclear hydrocarbons	Biphenyl
23.08.2012	9.	Dr. K. S. Yadav	III	Polynuclear hydrocarbons	Naphthalene
24.08.2012	6.	Dr. Shalini Singh	I	Thermodynamics	Calculation of q, w, dU & dH
25.08.2012		Dr. Shalini Singh		Evaluation	
27.08.2012	12.	Dr. Manisha Kapoor	II	Transition elements	Variation in radii, colour of ions and magnetic behaviours
28.08.2012	13.	Dr. Manisha Kapoor	II	Transition elements	Comparative studies of 3d, 4d and 5d series elements
29.08.2012	10.	Dr. K.S. Yadav	III	Polynuclear hydrocarbons	Constitution of naphthalene
30.08.2012	11.	Dr. K.S. Yadav	III	Polynuclear hydrocarbons	Tetraline and decaline
01.09.2012		Dr. Shalini Singh		Class Teaching	

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03.09.2012	14.	Dr. Manisha Kapoor	II	Coordination compounds	General introduction and kinds of ligands
04.09.2012	15.	Dr. Manisha Kapoor	II	Coordination compounds	Classification of ligands as well as complex compounds
05.09.2012	12.	Dr. K. S. Yadav	III	Polynuclear hydrocarbons	1-and 2- naphthols
06.09.2012	13.	Dr. K. S. Yadav	III	Polynuclear hydrocarbons	Naphthylamines
07.09.2012	7.	Dr. Shalini Singh	I	Thermodynamics	Expansion of ideal gases, isothermal and adiabatic processess
08.09.2012		Dr. Shalini Singh	I	Class Teaching	
10.09.2012	16.	Dr. Manisha Kapoor	II	Coordination compounds	Werner's theory
11.09.2012	17.	Dr. Manisha Kapoor	II	Coordination compounds	Sidwick's E.A.N. concept, calculation & limitation
13.09.2012	14.	Dr. K. S. Yadav	III	Heterocyclic compounds	Pyrrole
14.09.2012	8.	Dr. Shalini Singh	I	Thermodynamics	Thermochemistry
15.09.2012		Dr. Shalini Singh	I	Class Teaching	

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18.09.2012	18.	Dr. Manisha Kapoor	II	Coordination compounds	Valence bond theory for coordination no.2 & 4
19.09.2012	15.	Dr. K. S. Yadav	III	Heterocyclic compounds	Pyrrole
20.09.2012	16.	Dr. K. S. Yadav	III	Heterocyclic compounds	Furan
21.09.2012	9.	Dr. Shalini Singh	I	Thermochemistry	Standard state
22.09.2012		Dr. Shalini Singh		Evaluation	
24.09.2012	19.	Dr. Manisha Kapoor	II	Coordination compounds	V.B. theory for coordination no.6 complexes
25.09.2012	20.	Dr. Manisha Kapoor	II	Coordination compounds	Structural isomerism
26.09.2012	17.	Dr. K. S. Yadav	III	Heterocyclic compounds	Furan
27.09.2012	18.	Dr. K. S. Yadav	III	Heterocyclic compounds	Thiophene
01.10.2012	21.	Dr. Manisha Kapoor	II	Coordination compounds	Optical & geometrical isomerism
04.10.2012	19.	Dr. K. S. Yadav	III	Heterocyclic compounds	Pyridine
05.10.2012	10.	Dr. Shalini Singh	I	Thermochemistry	Definitions
06.10.2012	11.	Dr. Shalini Singh	I	Thermochemistry	Hess's law of constant heat summation
08.10.2012	22.	Dr. Manisha Kapoor	II	Coordination compounds	Nomenclature of complex compounds
11.10.2012	20.	Dr. K. S. Yadav	III	Heterocyclic compounds	Pyridine

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12.10.2012	12.	Dr. Shalini Singh	I	Thermochemistry	Its application
13.10.2012	13.	Dr. Shalini Singh	I	Thermochemistry	Bond energy and its calculation
17.10.2012	21.	Dr. K. S. Yadav	III	Aromatic hydrocarbons	General methods of preparation
18.10.2012	22.	Dr. K. S. Yadav	III	Aromatic hydrocarbons	Molecular orbital representation of benzene
19.10.2012	14.	Dr. Shalini Singh	I	Thermochemistry	Kirchoff's equation
20.10.2012	15.	Dr. Shalini Singh	I	Thermodynamics-II	Second law of thermodynamics
29.10.2012	23.	Dr. Manisha Kapoor	II	Coordination compounds	Nomenclature of dinuclear complexes & chelate effect
30.10.2012		Dr. Manisha Kapoor		Evaluation	
31.10.2012	23.	Dr. K. S. Yadav	III	Aromatic hydrocarbons	Molecular orbital representation of benzene
01.11.2012	24.	Dr. K. S. Yadav	III	Aromatic hydrocarbons	Aromaticity
02.11.2012	16.	Dr. Shalini Singh	I	Thermodynamics-II	Concept of entropy
03.11.2012	17.	Dr. Shalini Singh	I	Thermodynamics-II	Entropy as a state function
05.11.2012	24.	Dr. Manisha Kapoor	II	Coordination compounds	Nomenclature of cationic, anionic and neutral complexes having 2,4,6 coordination number

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06.11.2012		Dr. Manisha Kapoor	II	Class Teaching	
07.11.2012	25.	Dr. K. S. Yadav	III	Mechanism of aromatic electrophilic substitutions	Halogenation, nitration
08.11.2012	26.	Dr. K. S. Yadav	III	Mechanism of aromatic electrophilic substitutions	Sulphonation, alkylation and acylation
09.11.2012	18.	Dr. Shalini Singh	I	Thermodynamics-II	Entropy as a state function
16.11.2012	19.	Dr. Shalini Singh	I	Thermodynamics-II	Variation of entropy with T, P, V
17.11.2012	20.	Dr. Shalini Singh	I	Thermodynamics-II	Entropy change during physical processes
19.11.2012	25.	Dr. Manisha Kapoor	II	Coordination compounds	Inner and outer orbital complexes.
20.11.2012		Dr. Manisha Kapoor	II	Class Teaching	
21.11.2012	27.	Dr. K. S. Yadav	III	Mechanism of aromatic electrophilic substitutions	Orientation in aromatic substitution
22.11.2012	28.	Dr. K. S. Yadav	III	Mechanism of aromatic electrophilic substitutions	Orientation in aromatic substitution

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23.11.2012	21.	Dr. Shalini Singh	I	Thermodynamics-II	Work function, Gibb's function and their variation with T,P,V
26.11.2012	26.	Dr. Manisha Kapoor	II	Coordination compounds	Low and high spin complexes & calculation of magnetic moment.
27.11.2012		Dr. Manisha Kapoor		Evaluation	
29.11.2012	29.	Dr. K. S. Yadav	III	Mechanism of aromatic electrophilic substitutions	Ortho/para ratio
30.11.2012	22.	Dr. Shalini Singh	I	Thermodynamics-II	Criteria for spontaneity
01.12.2012	23.	Dr. Shalini Singh	I	Chemical equilibrium	Equilibrium constant & free energy, derivation of law of mass action
03.12.2012	27.	Dr. Manisha Kapoor	II	Non-aqueous solvents	Classification of different type of solvents
07.12.2012	24.	Dr. Shalini Singh	I	Chemical equilibrium	Le Chatelier's principle
08.12.2012	25.	Dr. Shalini Singh	I	Chemical equilibrium	Its application
11.12.2012	28.	Dr. Manisha Kapoor	II	Non-aqueous solvents	Properties and comparison of solvents
12.12.2012	30.	Dr. K. S. Yadav	III	Aromatic nitro compounds	Nitrobenzene

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13.12.2012		Dr. K.S. Yadav	III	Class Teaching	
14.12.2012	26.	Dr. Shalini Singh	I	Electrochemistry	Introduction
15.12.2012	27.	Dr. Shalini Singh	I	Electrochemistry	Specific, equivalent and molar conductance
17.12.2012	29.	Dr. Manisha Kapoor	II	Non-aqueous solvents	Different type of chemical reactions occurring in liquid NH_3
18.12.2012	30.	Dr. Manisha Kapoor	II	Non-aqueous solvents	Different type of chemical reactions occurring in liquid NH_3
19.12.2012	31.	Dr. K. S. Yadav	III	Aromatic nitro compounds	Reduction of nitrobenzene
20.12.2012		Dr. K. S. Yadav	III	Class Teaching	
21.12.2012	28.	Dr. Shalini Singh	I	Electrochemistry	Variation of conductance with dilution
22.12.2012	29.	Dr. Shalini Singh	I	Electrochemistry	Kohlrausch law and its application
26.12.2012	32.	Dr. K. S. Yadav	III	Aromatic nitro compounds	Dinitrobenzene and trinitrotoluene (TNT)
27.12.2012		Dr. K. S. Yadav		Evaluation	
28.12.2012	30.	Dr. Shalini Singh	I	Electrochemistry	Arrhenius theory of electrolytes, its limitation
29.12.2012	31.	Dr. Shalini Singh	I	Electrochemistry	Ostwald's dilution law, its limitation

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31.12.2012	31.	Dr. Manisha Kapoor	II	Non-aqueous solvents	Different type of reactions occurring in liquid SO_2
01.01.2013	32.	Dr. Manisha Kapoor	II	Non-aqueous solvents	Different type of reactions occurring in liquid SO_2
02.01.2013	33.	Dr. K. S. Yadav	III	Aromatic amino compounds	Study of aniline and diazonium salts
03.01.2013		Dr. K.S. Yadav	III	Class Teaching	
04.01.2013	32.	Dr. Shalini Singh	I	Electrochemistry	Debye-Huckel theory for strong electrolyte
07.01.2013	33.	Dr. Manisha Kapoor	II	Acid-Base concept	Introduction, definition of acids & bases
08.01.2013	34.	Dr. Manisha Kapoor	II	Acid- Base concept	Lewis concept of acids & bases
09.01.2013	34.	Dr. K. S. Yadav	III	Aromatic amino compounds	Benzylamine, toluidines and diazonium salts
10.01.2013		Dr. K. S. Yadav	III	Class Teaching	
11.01.2013	33.	Dr. Shalini Singh	I	Electrochemistry	Activity and activity coefficient
12.01.2013	34.	Dr. Shalini Singh	I	Electrochemistry	Transport number-Hittorf's method
16.01.2013	35.	Dr. K. S. Yadav	III	Aromatic amino compounds and diazonium salts	Relative basicity of aniline, toluidines

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17.01.2013	36.	Dr. K. S. Yadav	III	Aromatic amino compounds and diazonium salts	Preparation of benzene diazonium chloride
18.01.2013	35.	Dr. Shalini Singh	I	Electrochemistry	Moving boundary method
19.01.2013	36.	Dr. Shalini Singh	I	Electrochemistry	Applications of conductivity measurements.
21.01.2013	35.	Dr. Manisha Kapoor	II	Acid-Base concept	Lewis concept of bases
22.01.2013	36.	Dr. Manisha Kapoor	II	Acid-Base concept	Concept of hard & soft acids & bases
23.01.2013	37.	Dr. K. S. Yadav	III	Aromatic amino compounds and diazonium salts	Reactions of benzene diazonium chloride
24.01.2013	38.	Dr. K.S. Yadav	III	Phenols	Acidic character and reactions of phenol
25.01.2013	37.	Dr. Shalini Singh	I	Electrochemistry-I	Application of conductivity measurements.
28.01.2013	37.	Dr. Manisha Kapoor	II	Acid-Base concept	Classification of hard & soft acids & bases.
29.01.2013	38.	Dr. Manisha Kapoor	II	Acid-Base concept	Applications of HSAB principle
31.01.2013	39.	Dr. K. S. Yadav	III	Phenols	Picric acid
*	40.	Dr. K. S. Yadav	III	Aromatic alcohols, aldehydes and ketones	Benzyl alcohol

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*	38.	Dr. Shalini Singh	I	Electrochemistry-I	Application of conductivity measurements.
*	39.	Dr. Manisha Kapoor	II	Acid-Base concept	Problems on HSAB principle
*	40.	Dr. Manisha Kapoor	II	Acid-Base concept	Problems on HSAB principle
*	41.	Dr. K. S. Yadav	III	Aromatic alcohols, aldehydes and ketones	Benzaldehyde
*	42.	Dr. K.S. Yadav	III	Aromatic alcohols, aldehydes and ketones	Salicylaldehyde
*	39.	Dr. Shalini Singh	I	Electrochemistry-I	Conductometric titration
*	40.	Dr. Shalini Singh	I	Electrochemistry-II	Introduction-types of reference electrodes
*	43.	Dr. K. S. Yadav	III	Aromatic alcohols, aldehydes and ketones	Acetophenone
*	44.	Dr. K. S. Yadav	III	Aromatic alcohols, aldehydes and ketones	Benzophenone
*	45.	Dr. K.S. Yadav	III	Aromatic acids	Cinnamic acid and phthalic acid
*	41.	Dr. Shalini Singh	I	Electrochemistry-II	Nernst equation

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*	42.	Dr. Shalini Singh	I	Electrochemistry-II	Cell EMF, Standard electrode potential
*	43.	Dr. Shalini Singh	I	Electrochemistry-II	SHE, Sign Convention
*	46.	Dr. K.S. Yadav	III	Aromatic acids	Salicylic acid
*	47.	Dr. K. S. Yadav	III	Aromatic acids	Acidic strength
*	48.	Dr. K.S. Yadav	III	Aromatic sulphonic acids	Benzene sulphonic acid
*	44.	Dr. Shalini Singh	I	Electrochemistry-II	Electro chemical series, electrolytic and galvanic cell
*	45.	Dr. Shalini Singh	I	Electrochemistry-II	Representation of cell, E.M.F of cell and its measurements
*	46.	Dr. Shalini Singh	I	Electrochemistry-II	Calculation of "G" and "A"
*	49.	Dr. K.S. Yadav	III	Aromatic sulphonic acids	Sulphanilic acid, chloramine-T and saccharine
*	50.	Dr. K. S. Yadav	III	Aromatic halogen compounds	Chlorobenzene and benzyl chloride
*	51.	Dr. K. S. Yadav	III	Aromatic halogen compounds	Different types of halogen compounds

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*	47.	Dr. Shalini Singh	I	Electrochemistry-II	Concentration cell with and without transference.
*	48.	Dr. Shalini Singh	I	Electrochemistry-II	Liquid junction potential
*	49.	Dr. Shalini Singh	I	Electrochemistry-II	Application of concentration cells
*	52.	Dr. K.S. Yadav	III	Aromatic halogen compounds	Different types of halogen compounds
*	50.	Dr. Shalini Singh	I	Electrochemistry-II	Application of concentration cells
*	51.	Dr. Shalini Singh	I	Electrochemistry-II	Application of concentration cells
*	52.	Dr. Shalini Singh	I	Electrochemistry-II	Application of concentration cells
*	53.	Dr. Shalini Singh	I	Electrochemistry-II	pH and its determination
*	54.	Dr. Shalini Singh	I	Electrochemistry-II	pH and its determination
*	55.	Dr. Shalini Singh	I	Electrochemistry-II	pH and its determination, buffer solution
*	56.	Dr. Shalini Singh	I	Electrochemistry-II	Hydrolysis of salts
*	57.	Dr. Shalini Singh	I	Electrochemistry-II	Corrosion and its prevention
*	58.	Dr. Shalini Singh	I	Phase equilibrium	Introduction

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कक्षा : बी.एस.सी. भाग-दो					विषय : रसायन शास्त्र
दिनांक	व्याख्यान	प्राध्यापक का नाम	प्रश्नपत्र	अध्याय	शीर्षक
*	59.	Dr. Shalini Singh	I	Phase equilibrium	Water system
*	60.	Dr. Shalini Singh	I	Phase equilibrium	Sulphur system
*	61.	Dr. Shalini Singh	I	Phase equilibrium	Helium system
*	62.	Dr. Shalini Singh	I	Phase equilibrium	Two component system (Pb-Ag system)
*	63.	Dr. Shalini Singh	I	Phase equilibrium	Two component system (Mg-Zn system)
*	64.	Dr. Shalini Singh	I	Phase equilibrium	Two component system (CuSO ₄ -H ₂ O system)
*	65.	Dr. Shalini Singh	I	Phase equilibrium	Partially miscible liquids (phenol-water system)
*	66.	Dr. Shalini Singh	I	Phase equilibrium	First and second order phase transitions, Nernst distribution law
*	67.	Dr. Shalini Singh	I	Phase equilibrium	Its derivation, applications
*	68.	Dr. Shalini Singh	I	Phase equilibrium	Applications
<u>Extra Classes</u> * Paper- I (Physical Chemistry) - Dr. Shalini Singh (31) * Paper- II (Inorganic Chemistry) - Dr. Manisha Kapoor (02) * Paper- III (Organic Chemistry) - Dr. K. S. Yadav (13)					