

Lesson Plan

C.R.D.A.V. GIRLS COLLEGE, ELLENABAD

Name of Assistant Professor: Dr. Vishal Saini

Class: B.Sc-II, Sem-IV, Subject: CHEMISTRY

WEEK	DATE	TOPICS COVERED
1	1-JAN 2018	INORGANIC CHEMISTRY Lanthanides elements position in periodic table, configuration, exceptions, size, lanthanides contraction
	2-JAN 2018	General Characteristics of lanthanides
	3-JAN 2018	Comparison with d-block elements
	4-JAN 2018	Oxidation states and complex formation tendency
	5-JAN 2018	Colour formation, spectral property, magnetic character
	6-JAN 2018	Occurance and separation of lanthanides
	7-JAN 2018	SUNDAY
2	8-JAN 2018	Compounds of lanthanides
	9-JAN 2018	Actinides elements position in periodic table, configuration, exceptions, size, Actinide contraction
	10-JAN 2018	General Characteristics of Actinides
	11-JAN 2018	Comparison of Lanthanides and Actinides
	12-JAN 2018	Separation of Actinides
	13-JAN 2018	Revision
	14-JAN 2018	SUNDAY
3	15-JAN 2018	Radicals Groups Introduction and chemistry Basis
	16-JAN 2018	Basis of Qualitative Analysis
	17-JAN 2018	Group I and II basic radicals Scheme
	18-JAN 2018	Group III and IV basic radicals Scheme
	19-JAN 2018	Group V and VI basic radicals Scheme
	20-JAN 2018	Revision of Scheme
	21-JAN 2018	SUNDAY
4	22-JAN 2018	VASANT PANCHAMI
	23-JAN 2018	Class Test
	24-JAN 2018	Sir Chhotu Ram Jayanti
	25-JAN 2018	Chemistry of Acidic radicals
	26-JAN 2018	Republic Day
	27-JAN 2018	Specific Combinations of Radicals
	28-JAN 2018	SUNDAY
5	29-JAN 2018	Interference of radicals and their separation
	30-JAN 2018	Precipitation, factors, growth, purification
	31-JAN 2018	Revision

WEEK	DATE	TOPICS COVERED
1	1-Feb 2018	Reasoning based questions
	2-Feb 2018	Problems/ Assignment-I Allotted
	3-FEB2018	Class Test
	4-FEB 2018	SUNDAY
2	5-FEB 2018	ORGANIC CHEMISTRY Introduction and Principle of IR Spectroscopy,
	6-FEB 2018	Types of Vibrations Degree of Freedom, problems
	7-FEB2018	Position, Intensity of bands, factors, selection rules
	8-FEB 2018	Specific peaks of functional groups and effect of factors
	9-FEB 2018	Interperation of some spectra
	10-FEB 2018	Maharishi Dayanand Saraswati Jayanti
	11-FEB 2018	SUNDAY
3	12-FEB 2018	Applications of IR spectroscopy
	13-FEB 2018	Numericals on spectra
	14-FEB 2018	Reasoning questions
	15-FEB 2018	Revision
	16-FEB 2018	Class Test
	17-FEB 2018	Problems
	18-FEB 2018	SUNDAY
4	19-FEB 2018	Structure, nomenclature and preparation of amines
	20-FEB 2018	Chemical property of Amines
	21-FEB 2018	Basic Strength of Amines
	22-FEB 2018	Structure, nomenclature and preparation of Diazonium Compounds
	23-FEB 2018	Synthetic applications of Diazo compounds
	24-FEB 2018	Problems
	25-FEB 2018	SUNDAY
5	26-FEB 2018	Structure, nomenclature and preparation of Carboxylic acid Compounds
	27-FEB 2018	Chemical properties of carboxylic acids
	28-FEB 2018	Science Day Celebration

WEEK	DATE	TOPICS COVERED
1	1-MAR 2018	Query Discussion
	2-MAR 2018	HOLI
	3-MAR2018	Holiday
	4-MAR 2018	SUNDAY
2	5-MAR 2018	Acidic Strength of Acid
	6-MAR 2018	
	7-MAR2018	Stability and Reactivity of Acid derivatives
	8-MAR 2018	Reactions of Acid Derivatives
	9-MAR 2018	Mechanism of Acidic and Basic Hydrolysis of derivatives
	10-MAR 2018	Revision
	11-MAR 2018	SUNDAY
3	12-MAR 2018	Reasoning questions/ Assignment -2 Allotted
	13-MAR 2018	Class Test
	14-MAR 2018	PHYSICAL CHEMISTRY Review of 1 st law of thermodynamics, Limitation of 1 st law and need of second law of thermodynamics
	15-MAR 2018	Carnot Cycle, Carnot Theorem, efficiency
	16-MAR 2018	Numericals
	17-MAR 2018	Statements of 2 nd law and thermodynamic scale of temperature
	18-MAR 2018	SUNDAY
4	19-MAR 2018	Entropy, Characters, Reversible and irreversible process with entropy change
	20-MAR 2018	Claussius Inequality, Numericals on entropy
	21-MAR 2018	Entropy relation with V,T and P,T
	22-MAR 2018	Entropy Change on mixing of gases
	23-MAR 2018	Shaheedi Diwas
	24-MAR 2018	Problems related to chapter
	25-MAR 2018	SUNDAY
5	26-MAR 2018	Gibbs Helmholtz function, Variation of G with P,V and T
	27-MAR 2018	Spontaneity Criteria
	28-MAR 2018	Equilibrium and spontaneity
	29-MAR 2018	MAHAVEER JAYANTI
	30-MAR 2018	Gibbs Helmholtz Equation and Applications
	31-MAR 2018	Nearst Heat Theorem and 3 rd law of thermodynamics

WEEK	DATE	TOPICS COVERED
1	1-APR 2018	SUNDAY
	2-APR 2018	Residual Entropy
	3-APR2018	Problems
	4-APR 2018	Revision
2	5-APR 2018	Class Test
	6-APR 2018	Electrolytic cell, electrochemical cell comparison
	7-APR2018	Representation of cell, salt bridge, cell working
	8-APR 2018	SUNDAY
	9-APR 2018	electrode potential and Electrochemical series with application
	10-APR 2018	Reversible and irreversible cells, Types of reversible electrodes with expression and working
3	11-APR 2018	Numerical problems related to electrodes
	12-APR 2018	Applications of electrodes with numericals
	13-APR 2018	Numerical on electrodes types and working
	14-APR 2018	Dr. Ambedkar Jayanti
	15-APR 2018	SUNDAY
	16-APR 2018	Thermodynamic quantities determination from electrode
	17-APR 2018	Nearnst equation and applications
4	18-APR 2018	Parashu Rama Jayanti
	19-APR 2018	Numericals, Concentration Cell with and without transference
	20-APR 2018	Liquid junction potential, Numerical
	21-APR 2018	Applications of emf measurements, pH and Sulubility
	22-APR 2018	SUNDAY
	23-APR 2018	Transport Number, Determination, Numerical
	24-APR 2018	Potentiometric Titrations
5	25-APR 2018	Revision
	26-APR 2018	Revision
	27-APR 2018	Revision
	28-APR 2018	Revision
	29-APR 2018	SUNDAY
	30-APR 2018	Revision