

# SARASWATI MAHILA MAHAVIDYALAYA, PALWAL

## LESSON PLAN

Class : B.Sc I<sup>st</sup> semester

Semester : ODD

Paper : organic chemistry

Session : 2020-2021

Lectures	Topic
lect. 1.	Localized and De-localized chemical bond.
lect. 2.	Vanderwaal's interaction, resonance
lect. 3.	Resonance effect and its application.
lect. 4.	Hyperconjugation, Inductive effect.
lect. 5.	Electromeric effect and their comparison
lect. 6.	Concept of Isomerism, types of isomerism
lect. 7.	Element of symmetry, molecular chirality
lect. 8.	Enantiomers, stereogenic centre, optical activity.
lect. 9.	properties of enantiomers
lect. 10.	Chiral and Achiral molecules with <sup>two</sup> stereogenic centres.
lect. 11.	Diastereomers, threo, and erythro diastereomers
lect. 12.	Meso compounds, resolution of enantiomers
lect. 13.	Inversion, retention and racemization.
lect. 14.	Relative and absolute configuration
lect. 15.	Sequence rules, R and S system of nomenclature
lect. 16.	Determination of configuration of geometric isomers
lect. 17.	E and Z systems of nomenclature
lect. 18.	Conformational analysis of ethane and n-butane.

Amrita

# SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

## LESSON-PLAN

Class: B.Sc. 1st Semester  
 Subject: Physical Chemistry

Semester: ODD/EVEN  
 Session: 2020-21

Lecture Number	Topic
lect. 18	properties of liquids
lect. 19	Classification of solids
lect. 20	Law of constancy of interfacial angles
lect. 21	Law of rationality of indices, law of symmetry
lect. 22	Symmetry elements of crystals.
lect. 23	Definition of unit cell and space lattice
lect. 24	Bravais lattices, crystal systems.
lect. 25	X-ray diffraction by crystals
lect. 26	Derivation of Bragg Equation.
lect. 27	Derivation of crystal structure of NaCl
lect. 28	Derivation of crystal structure of KCl
lect. 29	Difference between solid, liquid and liquid crystal.
lect. 30	types of liquid crystals
lect. 31	Application of liquid crystals.

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