

SARASWATI MAHILA MAHAVIDHYALAYA, PALWAL

LESSON-PLAN

Class: B.Sc Ist Semester
 Subject: Physical Chemistry

Semester: ODD/EVEN
 Session: 2020-21

Lecture Number	Topic
lect. 1.	Maxwell's distribution of velocities and energies
lect. 2.	Calculation of root mean square velocity
lect. 3.	Average velocity and most probable velocity
lect. 4.	Collision diameter, collision number
lect. 5.	Collision frequency, mean free path
lect. 6.	Deviation of real gases from ideal behaviour
lect. 7.	Derivation of vander waal's Equation of state
lect. 8.	Applications of vander waal Equation in calculating Boile temperature.
lect. 9.	Explation of behaviour of real gases using vander waal Equation.
lect. 10.	Critical temperature, critical pressure, critical volume.
lect. 11.	PV Isotherms of real gases, continuity of state
lect. 12.	Isotherms of vander waal's equation.
lect. 13.	Relationship between critical constant and vander waal's constant.
lect. 14.	Critical compressibility factor.
lect. 15.	Law of corresponding states
lect. 16.	Liquidification of gases.
lect. 17.	Structure of liquids

Signature: 

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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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