

16.07.18	Inorganic chemistry
17.07.18	Metal-ligand Bonding in Transition Metal Complexes
18.07.18	Limitation of VBT. Theory
19.07.18	CFT Crystal field theory
20.07.18	Crystal field splitting in Octahedral field
21.07.18	Tetrahedral field.
22.07.18	Crystal field parameters (Sunday)
23.07.18	Thermodynamics and kinetics Aspects
24.07.18	Square planar complex
25.07.18	Thermodynamic aspect of metal complexes
26.07.18	Thermodynamic stability
27.07.18	Factors affecting stability
28.07.18	substitution Rxns.
29.07.18	Sunday
30.07.18	magnetic properties of transition metal Complexes
31.07.18	Magnetic behaviour
1.08.18	Magnetic susceptibility
2.08.18	L-S coupling
3.08.18	magnetic moments
4.08.18	Application of magnetic movements
5.08.18	Sunday
6.08.18	Electron Spectra of Transition metal complex.
7.08.18	selection rules of d-d transition
8.08.18	Spectrochemical Series
9.08.18	Orgel - energy level diagram for d^1 to d^{10} states
10.08.18	Discussion of $[Ti(H_2O)_6]^{3+}$ ion.

11.08.18	Quantum Mechanics-I
12.08.18	Sunday
13.08.18	Black Body Radiation
14.08.18	Planck's Radiation Law
15.08.18	photoelectric effect
16.08.18	Compton Effect
17.08.18	Quantum Mechanical operators
18.08.18	Hamiltonian operator
19.08.18	Sunday
20.08.18	Role of operators in quantum mechanics
21.08.18	Pictorial representation
22.08.18	Significance
23.08.18	Physical properties and molecular structure
24.08.18	optical activity
25.08.18	Clausius - Maxwell Equation
26.08.18	Sunday
27.08.18	Dipole moment
28.08.18	Measurement of dipole moment
29.08.18	Application of magnetic susceptibility
30.08.18	Paramagnetism, diamagnetism
31.08.18	Ferromagnetism
1 Sept. 2018	Spectroscopy-I
2.09.18	Sunday
3.09.18	Intro Introduction - Magnetic Radiations.
4.09.18	Region of spectrum
5.09.18	Degree of freedom
6.09.18	Born - Oppenheimer approximation

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7.09.18	Rotational Spectrum
8.09.18	Diatomic molecules
9.09.18	Sunday
10.9.18	Energy levels of Rigid Rotator
11.9.18	Selection Rules
12.9.18	Spectral Intensity
13.9.18	Maxwell - Boltzmann distribution
14.9.18	determination of Bond length
15.9.18	Isotope Effect
16.9.18	Sunday
17.9.18	Spectroscopy - II
18.9.18	Vibrational Spectrum
19.9.18	Infrared Spectrum
20.9.18	Simple harmonic oscillator
21.9.18	Selection Rules
22.9.18	Isotopic effect
23.9.18	Sunday
24.9.18	Maxwell - Boltzmann distribution
25.9.18	Spectroscopy - II
26.9.18	Raman Spectrum
27.9.18	Concept of polarisation
28.9.18	Pure Rotational Spectrum
29.9.18	Pure Vibrational Spectrum
30.9.18	Sunday
1 Oct. 2018	Quantum theory of Raman-spectrum.
2.10.18	Holiday

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3.10.18	Organic Chemistry
4.10.18	NMR Spectroscopy - I
5.10.18	Nuclear Magnetic Resonance
6.10.18	Number of signals
7.10.18	Sunday
8.10.18	Coupling Constant
9.10.18	Shielding Effect
10.10.18	Deshielding Effect
11.10.18	Splitting of signal.
12.10.18	Chemical shift
13.10.18	magnetic equivalence of protons.
14.10.18	Sunday
15.10.18	NMR - Spectroscopy - II
16.10.18	PMR spectra
17.10.18	Ethyl bromide
18.10.18	Fructose
19.10.18	(+) Glucose
20.10.18	Erythro-theryo diastereomers
21.10.18	Sunday
22.10.18	Structure of Ribose & deoxyribose
23.10.18	Carbohydrates - I, II
24.10.18	Classification, Nomenclature, open-chain structure
25.10.18	Polysaccharides, disaccharides,
26.10.18	Organometallic compound
27.10.18	Organozinc, Organomagnesium, Compounds
28.10.18	Sunday
29.10.18	Organolithium compounds
30.10.18	Grignard Reagents



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31.10.18	Formation of Organometallic Compound
1 Nov. 2018	Holiday
2.11.18	Chemical Reaction
3.11.18	Revision
4.11.18	Sunday
5.11.18	Test

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Remarks

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