	LECTURE PLAN FOR NEET_Chemistry (2021)  Holidays								
S. No.	Chapter Name		No. of Lecture	Date of Lecture	Completion Date	Date	Occasion		
1		Sub-atomic particles: Discovery of electron, Charge to mass ratio of electron, Charge on electron, Discovery of proton and neutron. Thomson model of atom, Rutherford's nuclear model of atom, Atomic and Mass number, Isobars and isotopes.	1	06/07/2021		21-Jul-21	Bakre-id		
2		Sub-atomic particles: Discovery of electron, Charge to mass ratio of electron, Charge on electron, Discovery of proton and neutron. Thomson model of atom, Rutherford's nuclear model of atom, Atomic and Mass number, Isobars and isotopes.	1	07/07/2021		15-Aug-21	Independence Day		
3		Particles nature of electromagnetic radiation : Plank's quantum theory	1	08/07/2021		22-Aug-21	Rakshabandhan		
4		Particles nature of electromagnetic radiation : Plank's quantum theory	1	13/07/2021		30-Aug-21	Janamashtmi		
5		Photoelectric effect, Dual behaviour of electromagnetic radiation.	1	14/07/2021		02-Oct-21	Gandhi Jayanti		
6	Structure of	Emission and absorption spectra, Line spectrum of hydrogen, Bohr's model for hydrogen atom, Explanation of Bohr's model.	1	15/07/2021		15-Oct-21	Dusshera		
7	Atom	Dual behaviour of matter, Heisenberg's uncertainty principle, Significance of uncertainty principle, Reason for the failure of the Bohr model.	1	20/07/2021	29/07/2021	19-Oct-21	Eid-e-Milad		
8		Quantum mechanics, Hydrogen atom and the Schrodinger equation, Orbitals and Quantum numbers, Shapes of atomic orbitals.	1	22/07/2021		04-Nov-21	Diwali		
9		Quantum mechanics, Hydrogen atom and the Schrodinger equation, Orbitals and Quantum numbers, Shapes of atomic orbitals.	1	27/07/2021		5-Nov-21	Diwali		
10		Energies of orbitals, Filling of orbitals in atom: Aufbau principle, Pauli exclusion principle, Hund's rule of maximum multiplicity, Electronic configuration of atoms, Stability of completely filled and half filled sub-shells.	1	28/07/2021		10-Nov-21	Chhat Pooja		

11		Energies of orbitals, Filling of orbitals in atom: Aufbau principle, Pauli exclusion principle, Hund's rule of maximum multiplicity, Electronic configuration of atoms, Stability of completely filled and half filled sub-shells.	1	29/07/2021		19-Nov-21	Guru Nanak Jayanti
12		Genesis of periodic classification, Modern periodic law and the present form of the periodic table.	1	03/08/2021		25-Dec-21	Christmas Day
13	Classification	Nomenclature of elements with atomic numbers > 100, Electronic configurations in periods, Groupwise electronic configuration, s, p, d and f-block elements.	1	04/08/2021		1-Jan-22	New Year
14	of Elements and Periodicity in	Metals, Non-metals and metalloids, Trend in physical properties	1	05/08/2021	11/08/2021	26-Jan-22	Republic Day
15	Properties	Atomic radius, Ionic radius, Ionisation enthalpy	1	07/08/2021		19-Mar-22	Holi
16	,	Electron gain enthalpy, Electronegativity	1	10/08/2021			
17		Periodic trends in chemical properties : Oxidation states, Anomalous properties of second period elements. Periodic trends and chemical reactivity.	1	11/08/2021			
18		Kossel-Lewis approach to chemical bonding, Octet rule, Covalent bond, Lewis representation of simple molecules	1	12/08/2021			
19		Formal charge, Limitations of octet rule : Incomplete octet of the central atom, odd-electron molecule, The expanded octet, Ionic or electrovalent bond, Lattice enthalpy	1	14/08/2021			
21		Bond parameters : Bond length, Bond angles, Bond enthalpy, Bond-order, Resonance structures. Resonance	1	17/08/2021			
22		Polarity of bonds : Dipole moment Percentage ionic character	1	18/08/2021			
23		Polarity of bonds : Dipole moment Percentage ionic character	1	19/08/2021			
24	Chemical	The valence shell electron pair repulsion theory	1	21/08/2021			
25	Bonding and	The valence shell electron pair repulsion theory	1	24/08/2021	01 /00 /2021		
26	Molecular Structure	Valence bond theory : Orbital overlap concept, Directional properties of bonds, Overlapping of atomic orbitals.	1	25/08/2021	01/09/2021		
27		Types of overlapping and nature of covalent bonds. Strength of s and p-bonds, Hybridisation : Features and conditions	1	26/08/2021			
28		Types of hybridisation : sp2, sp3, dsp2, sp3d, sp3d2 and hybridisation.	1	28/08/2021			
29		Molecular oribit theory: Features, Linear combination of atomic orbitals, Conditions for the combination of atomic orbitals, Types of molecular orbitals.	1	31/08/2021			

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		Energy level diagram for molecular orbitals, Electronic configuration and molecular behaviour, Bonding in same				
30		homonuclear diatomic molecules, Hydrogen bonding.	1	01/09/2021		
		Classification idea of redox reactions, Redox reactions in terms				
		of electron transfer reactions, Competitive electron transfer reactions, Oxidation number and its calculation, Fractional				
31		oxidation number.	1	02/09/2021		
	<b>.</b>	Types of redox reactions: Combination, decomposition,		, ,	-	
	Redox Reactions	Displacement and disproportionation reactions,			07/09/2021	
32	Reactions	Balancing of redox reactions.	1	04/09/2021		
		Redox reactions as the basis for titrations, Limitations of				
		concept of oxidation number. Redox reactions and electrode potentials, Redox couple, Working of Daniell cell,				
33		Electrochemical series.	1	07/09/2021		
		Position, Occurrence, Isotopes, Preparation, Properties and				
34		uses of hydrogen hydrides.	1	08/09/2021	-	
35	Hydrogen	Position, Occurrence, Isotopes, Preparation, Properties and uses of hydrogen hydrides.	1	09/09/2021	11/09/2021	
33		Hardness of H2O and its removal, H2O2 : Preparation and	1	09/09/2021		
37		properties, D2O, Dihydrogen as fuel	1	11/09/2021		
		Tetravalence of carbon, Structure of organic compounds,				
38		Classification of organic compounds,	1	14/09/2021	_	
39		Tetravalence of carbon, Structure of organic compounds, Classification of organic compounds,	1	15/09/2021		
39		Nomenclature of organic compounds (excluding functional	1	13/09/2021	-	
		group). IUPAC nomenclature of organic compounds including				
40		mono and bi functional groups.	1	16/09/2021		
		Nomenclature of organic compounds (excluding functional				
41		group). IUPAC nomenclature of organic compounds including mono and bi functional groups.	1	18/09/2021		
42		Isomerism : Structural isomerism including tautomerism	1	21/09/2021	-	
43		Isomerism : Structural isomerism including tautomerism	1	22/09/2021	1	
44		Stereoisomerism and Conformations	2	25/09/2021	1	
		Fundamental concepts in organic reaction, Mechanism : Bond	-	-, - : ,	1	
		fission, Nucleophile and electrophile,				
45	Organic	Inductive and electromeric effect, Resonance effect.	2	29/09/2021	]	

	Chemistry	Fundamental concepts in organic reaction, Mechanism : Bond			16/10/2021	
	Chemistry	fission, Nucleophile and electrophile,				
46		Inductive and electromeric effect, Resonance effect.	1	30/09/2021		
47		Hyperconjugation, Aromaticity and anti-aromaticity.	1	05/10/2021		
48		Hyperconjugation, Aromaticity and anti-aromaticity.	1	06/10/2021		
49		Reaction intermediates : Carbocation, Carbanion, Carbon free radicals, Carbene.	2	09/10/2021		
50		Reaction intermediates : Carbocation, Carbanion, Carbon free radicals, Carbene.	2	13/10/2021		
51		Types of organic reactions and mechanism: Substitution, Addition, Elimination and rearrangement reactions, Purificaiton of organic compounds, Qualitative and quantitative analysis.	1	14/10/2021		
52		Types of organic reactions and mechanism: Substitution, Addition, Elimination and rearrangement reactions, Purification of organic compounds, Qualitative and quantitative analysis.	1	16/10/2021		
53		Alkanes : Nomenclature and isomerism, Preparation and Properties.	2	21/10/2021		
54		Alkanes : Nomenclature and isomerism, Preparation and Properties.	1	23/10/2021		
55		Alkenes : Nomenclature and isomerism, Preparation	3	28/10/2021		
57		Alkenes : Properties	2	02/11/2021		
59	Hydrocarbons	Alkynes : Nomenclature and isomerism, Preparation and Properties.	2	06/11/2021	18/11/2021	
60	J. J	Alkynes : Nomenclature and isomerism, Preparation and Properties.	2	11/11/2021		
61		Aromatic hydrocarbons : Nomenclature, Preparation and Properties	1	13/11/2021		
62		Aromatic hydrocarbons : Nomenclature, Preparation and Properties	2	17/11/2021		
63		o, p and m-directing groups in electrophilic substitution reaction	1	18/11/2021		
64		Thermodynamics terms : System and surroundings, Types of system, The state of the system, The internal energy as a state function	1	20/11/2021		

65		Work and Heat First law of thermodynamics. Isothermal and free expansion of an ideal gas. Extensive and intensive properties.	1	23/11/2021		
66		Heat capacity, Relation between Cv and Cp for an ideal gas; Calorimetry	1	24/11/2021		
67		Heat capacity, Relation between Cv and Cp for an ideal gas; Calorimetry	1	25/11/2021		
68	Thermodyna mics	enthalpy and thermo chemical equation. Hess's law of constant heat summation.	1	27/11/2021	08/12/2021	
69	inics	enthalpy and thermo chemical equation. Hess's law of constant heat summation.	1	30/11/2021		
70		Enthalpy of combustion, Atomization, Bond-dissociation, Solution, Lattice and neutralisation	1	01/12/2021		
71		Enthalpy of combustion, Atomization, Bond-dissociation, Solution, Lattice and neutralisation	1	02/12/2021		
72		Spontaneity and entropy, Second law of thermodynamics	1	04/12/2021		
73		Free energy change and criteria for spontaneity. Third law of thermodynamics.	1	07/12/2021		
74		Free energy change and criteria for spontaneity. Third law of thermodynamics.	1	08/12/2021		
75		Chemical equilibrium: Liquid-vapour, Solid-liquid and solid-vapour equilibria, General characteristics of equilibria involving physical and chemical process	1	09/12/2021		
76		Law of chemical equilibrium and equilibrium constant	1	11/12/2021		
77		Law of chemical equilibrium and equilibrium constant	1	14/12/2021		
78		Homogeneous and heterogeneous equilibria, Application of equilibrium constants. Predicting the extent and the direction of reactions. Calculating equilibrium concentrations.	1	15/12/2021		
80		Relationship between equilibrium constant, Reaction quotient and Gibb's energy, Factors affecting equilibria: Change in concentration, pressure, temperature and effect of catalyst and effect of addition of inert gas.	1	16/12/2021		
81		Acids bases: Arrhenius, Bronsted-Lowry and Lewis concepts.	1	18/12/2021	0.4.04.10.00	
82	Equilibrium	Ionisation of acids and bases, Ionisation constant of water and its ionic product.	1	21/12/2021	04/01/2022	

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83		The pH scale, ionisation constants of weak acids and weak bases, Relation between Ka and Kb. Di and Polybasic acids and Polyacidic bases.	1	22/12/2021		
84		The pH scale, ionisation constants of weak acids and weak bases, Relation between Ka and Kb. Di and Polybasic acids and Polyacidic bases.	1	23/12/2021		
85		Factors affecting acid and bases - Strength, Common ion effect in the ionisation of acids and bases, Buffer solution	1	28/12/2021		
86		Factors affecting acid and bases - Strength, Common ion effect in the ionisation of acids and bases, Buffer solution	1	29/12/2021		
87		Salt hydrolysis and solubility product.	1	30/12/2021		
88		Salt hydrolysis and solubility product.	1	04/01/2022		
89		Alkali metals: Physical and chemical properties, Salt of oxo acids, Anomalous properties of Lithium, Similarity between Li and Mg, Compounds of Na: Na2CO3.10H2O, NaCl, NaOH, NaHCO3, Biological importance of Na and K.	1	05/01/2022		
90	The s-Block	Alkali metals: Physical and chemical properties, Salt of oxo acids, Anomalous properties of Lithium, Similarity between Li and Mg, Compounds of Na: Na2CO3.10H2O, NaCl, NaOH, NaHCO3, Biological importance of Na and K.	1	06/01/2022	44 (04 (000)	
91	Elements	Alkaline earth metals: Physical and chemical properties, Salts of oxoacids, Anomalous behaviour of beryllium, Diagonal relationship between Be and Al. Compounds of Ca: CaO, Ca (OH)2, CaCO3, CaSO4.1/2H2O. Biological importance of Mg and Ca.	1	08/01/2022	11/01/2022	
92		Alkaline earth metals: Physical and chemical properties, Salts of oxoacids, Anomalous behaviour of beryllium, Diagonal relationship between Be and Al. Compounds of Ca: CaO, Ca (OH)2, CaCO3, CaSO4.1/2H2O. Biological importance of Mg and Ca.	1	11/01/2022		
93		General electronic configuration and oxidation states of p-block elements, Inert pair effect, The boron family: Physical and chemical properties. Compound of boron: Borax, Orthoboric acid and diborane, Uses of B, Al and their compounds.	2	13/01/2022		

94	The p-Block Elements	General electronic configuration and oxidation states of p- block elements, Inert pair effect, The boron family: Physical and chemical properties. Compound of boron: Borax, Orthoboric acid and diborane, Uses of B, Al and their compounds.	1	15/01/2022	19/01/2022	
95		The carbon family: Physical properties: Chemical properties of group 14 elements, Allotropes of carbon, Compounds of C and Si: CO, CO2, SiO2, silicones, silicates and zeolites.	1	18/01/2022		
96		The carbon family: Physical properties: Chemical properties of group 14 elements, Allotropes of carbon, Compounds of C and Si: CO, CO2, SiO2, silicones, silicates and zeolites.	1	19/01/2022		
97	Environment al Chemistry	Environmental chemistry	1	20/01/2022	22/01/2022	
98	and	Environmental chemistry	1	22/01/2022	22/01/2022	