SL.NO	CHAPTER NAME	CURRENT SYLLUB	US	DELETED TOPICS IF ANY
5L.NU	CHAPTER NAME	TOPICS	ADDED TOPICS IF ANY	DELETED TOPICS IF AND
1	SOME BASIC CONCEPTS IN CHEMISTRY	 Matter and its nature, Dalton's atomic theory: Concept of atom, molecule, element. andcompound:: Laws of chemical combination; Atomic and molecular masses, Mole concept, Molar mass, Percentage composition, Empirical and molecular formulae: Chemical equations and stoichiometry. 		
2	ATOMIC STRUCTURE	 Nature of electromagnetic radiation, Photoelectric effect; Spectrum of the hydrogen atom. Bohr model of a hydrogen atom - its postulates, Derivation of the relations for the energy of the electron and radii of the different orbits, Limitations of Bohr's model; Dual nature of matter, De Broglie's relationship. Heisenberg uncertainty principle. Elementary ideas of quantum mechanics, Quantum mechanical model of the atom, its important features. Concept of atomic orbitals as one-electron wave functions: Variation of Ψ and Ψ^2 with r for 1s and 2s orbitals; Various quantum numbers (principal, angular momentum, arrd magnetic quantum numbers) and their slgnificance; Shapes of s, p, and d - orbitals, Electron spin and spin quantum number: Rules for filling electrons in orbitis - Aufbau principle. Pauli's exclusion principle and Hund's rule, Electronic configuration of elements, extra stability of half-filled and completely filled orbitals' 		1.Discovery of subatomic particles 2.Atomic models (Thomson model,Rutherford model)

	CI			
SL.NO	CHAPTER NAME	TOPICS	ADDED TOPICS IF ANY	DELETED TOPICS IF ANY
3	CHEMICAL BONDINC AND MOLECULAR STRUCTURE	 Kossel - Lewis approach to chemical bond formation, The concept of ionic and covalent bonds' Ionic Bonding: Formation of ionic bonds, Factors affecting the formation of ionic bonds; Calculation of lattice enthalpy. Concept of electronegativity. Fajan's rule, Dipole moment: Valence Shell Electron Pair Repulsion(VSEPR)theory and shapes of simple molecules. Quantum mechanical approach to covalent bonding: Valence bond theory - its important features. The concept of hybridization involving s, p, and d orbitals Resonance. Molecular orbital Theory - Its important features. LCAOs, 'types of molecular orbitals (bonding, antibonding), Sigma and pi-bonds, Molecular orbital clectronic configuralions of homonuclear diatomic molecules, The concept of bond order, bond length, and bond energy' Elementary idea of metallic bonding. Hydrogen bonding and its applications. 	1.Elementary idea of metalic bonding 2.Application of hydrogen bonding	
4	CHEMICAL THERMODYNAMICS	 Fundamentals of thermodynamics: System and surroundings, Extensive and intensive properties, State functions, Types of processes. The first law of thermodynamics - Concept of work,heat internal energy and enthalpy,heat capacity, molar heat capacity. Hess's law of constant heat summation; Enthalpies of bond dissociation, combustion' formation, atomization, sublimation, phase transition, hydration, ionization, and solution. The second raw of thermodynamics - Spontaneity of processes: ΔS of the universe and ΔG of the system as criteria for spontaneity. ΔGe (Standard'Gibbs energy change) and equiribrium constant. 		

	1			
SL.NO	CHAPTER NAME	CURRENT SYLLUB TOPICS	CURRENT SYLLUBUS	
5	SOLUTIONS	 Different methods for expressing the concentration of sorution - morarity, molarity, more fraction. percentage (by volume and mass both), The vapour pressure ofsolutions and Raoult,s law - Ideal and.non-ideal solutions, Vapour pressure -composition, plots for ideal and non-ideal solutions: Colligative Properties of dilute sorutions - Relative lowering of vapour pressure, Depression or mass freezing point' The elevation of boiring point Osmotic pressure: Determination of molecular mass using colligative properties; Ahnormal value of molar mass, Van't Hoff factor and its significance 		
6	EQUILIBRIUM	 Meaning of equilibrium, the concept of dynamic equilibrium. Equilibria involving physical processes: Solid-liquid, liquid - gas and solid-gas equilibria, Henry's law. General characteristics of equilibrium involving physical processes. Equilibrium involving chemical processes: Law of chemical equilibrium, Equilibrium constants (K_p and K_c) and their significance, The significance of ΔG and ΔG^o in chemical equilibrium, Factors affecting equilibrium concentration, pressure, temperature, the effect of catalyst; Le Chatelier's principle. More equilibrium: Weak and strong electrolytes, Ionization of electrolytes, Various concepts of acids and bases (Arrhenius. Bronsted - Lowry and Lewis) and their ionization, Acid-base equilibria (including multistage ionization) and ionization constants, Ionization of water. pH scale, Common ion effect, Hydrolysis of salts and pH of their solutions, The solubility of sparingly soluble salts and solubility products, 	P^H of their solutions (S.A+W.B,W.A+S.B,WA+ WB)	

	CHEMISTRY UPDATED NEET 2024 SYLLABUS					
SL.NO	CHAPTER NAME	TOPICS	ADDED TOPICS IF ANY	DELETED TOPICS IF ANY		
7	REDOX REACTIONS AND ELECTROCHEMISTRY	 Electronic concepts of oxidation and reduction, redox reactions, oxidation number, rules for assigning oxidation number, balancing of redox reactions. Electrolytic and metallic conduction, conductance in electrolytic solutions, •molar conductivities and their variation with concentration: Kohlrausch's law and its applications. Electrolytic and Galvanic cells, Different types of electrodes, Electrode potentials including standard electrode potential, Half - cell and cell reactions, emf of a Galvanic cell and its measurement: Nernst equation and its applications; Relationship between cell potential and Gibbs' energy change: Dry cell and lead accumulator; Fuel cells. 	Different type of electrodes	Corrosion		
8	CHEMICAL KINETICS	 Rate of a chemical reaction, Factors affecting the rate of reactions: concentration, temperature, pressure, and catalyst; Elementary and complex reactions, Order and molecularity of reactions, Rate law, Rate constant and its units, Differential and integral forms of zero and first- order reactions, their characteristics and half-lives, The effect of temperature on the rate of reactions, Arrhenius theory, Activation energy and its calculation, Collision theory of bimolecular gaseous reactions (no derivation). 				
9	CLASSITICATION OF ELEMENTS AND PERIODICITY IN PROPERTIES	 Modem periodic law and present form of the periodic table, s, p. d and f block elements, Periodic trends in properties of elements Atomic and ionic radii, Ionization enthalpy, Electron gain enthalpy, Valence, Oxidation states, Chemical reactivity. 		Genesis of periodic classification		
10	P- BLOCK ELEMENTS	 Group -13 to Group 18 Elements General Introduction: Electronic configuration and general trends in physical and chemical properties of elements across the periods and down the groups; Unique behaviour of the first element in each group. 		Compounds of p-block elements		

	CHEMISTRY UPDATED NEET 2024 SYLLABUS					
SL.NO	CHAPTER NAME	TOPICS	ADDED TOPICS IF ANY	DELETED TOPICS IF ANY		
11	d - AND f- BLOCK ELEMENTS	 Transition Elements General introduction, Electronic configuration, Occurrence and characteristics, General trends in properties of the first-row transition elements Physical properties, ionization enthalpy, oxidation states, atomic radii, colour, catalytic behaviour, magnetic properties, complex formation, interstitial compounds, alloy formation; Preparation, properties, and uses of K_2 Cr_2 O_7, and KMnO_4. Inner Transition Elements Lanthanoids - Electronic configuration, oxidation states, and lanthanoid contraction. Actinoids - Electronic configuration and oxidation states. 				
12	CO-ORDINATION COMPOUNDS	 Introduction to coordination compounds. Werner's theory; Ligands, Coordination number, Denticity Chelation; IUPAC nomenclature of mononuclear coordination compounds, isomerism; Bonding- Valence bond approach Basic ideas of Crystal field theory, Colour and magnetic properties; Importance of co-ordination compounds (in qualitative analysis, extraction of metals and in biological systems). 				
13	PURIFICATION AND CHARACTERISATION OF ORGANIC COMPOUNDS	 Purification - Crystallization, sublimation, distillation, differential extraction, and chromatography - principles and their applications. Qualitative analysis - Detection of nitrogen, sulphur, phosphorus, and halogens. Quantitative analysis (basic principles only) - Estimation of carbon, hydrogen, nitrogen, halogens, sulphur, phosphorus. Calculations of empirical formulae and molecular formulae: Numerical problems in organic quantitative analysis. 				

	CHEMISTRY UPDATED NEET 2024 SYLLABUS CURRENT SYLLUBUS					
SL.NO	CHAPTER NAME	TOPICS	ADDED TOPICS IF ANY	DELETED TOPICS IF ANY		
14	SOME BASIC PRINCIPLES OF ORGANIC CHEMISTRY	 Tetravalency of carbon: Shapes of simple molecules - hybridization (s and p): Classification of organic compounds based on functional groups: and those containing halogens, oxygen, nitrogen, and sulphur; Homologous series: Isomerism - structural and stereoisomerism. Nomenclature (Trivial and IUPAC) Covalent bond fission - Homolytic and heterolytic: free radicals, carbocations, and carbanions; stability of carbocations and free radicals, electrophiles, and nucleophiles. Electronic displacement in a covalent bond Inductive effect, electromeric effect, resonance, and hyperconjugation. Common types of organic reactions-Substitution, addition, elimination, and rearrangement. 				
15	HYDROCARBONS	 Classification, isomerism, IUPAC nomenclature, general methods of preparation, properties, and reactions. Alkanes - Conformations: Sawhorse and Newman projections (of ethane): Mechanism of halogenation of alkanes. Alkenes - Geometrical isomerism: Mechanism of electrophilic addition: addition of hydrogen, halogens, water, hydrogen halides (Markownikoffs and peroxide effect): Ozonolysis and polymerization. Alkynes - Acidic character: Addition of hydrogen, halogens, water, and hydrogen halides: Polymerization. Aromatic hydrocarbons - Nomenclature, benzene - structure and aromaticity: Mechanism of electrophilic substitution: halogenation, directive influence of the functional group in monosubstituted benzene. 				
16	ORGANIC COMPOUNDS CONTAINING HALOGENS	General methods of preparation, properties, and reactions; Nature of C-X bond; Mechanisms of substitution reactions. Uses; Environmental effects of chloroform, iodoform freons, and DDT.				

	CHEMISTRY UPDATED NEET 2024 SYLLABUS						
	CURRENT SYLLUBUS						
SL.NO	CHAPTER NAME	TOPICS	ADDED TOPICS IF ANY	DELETED TOPICS IF ANY			
17	ORGANIC COMPOUNDS CONTAINING OXYGEN	 General methods of preparation, properties, reactions, and uses. ALCOHOLS, PHENOLS AND ETHERS Alcohols: Identification of primary, secondary, and tertiary alcohols: mechanism of dehydration. Phenols: Acidic nature, electrophilic substitution reactions: halogenation. nitration and sulphonation. Reimer - Tiemann reaction. Ethers: Structure. Aldehyde and Ketones: Nature of carbonyl group; Nucleophilic addition to >C=O group, relative reactivities of aldehydes and ketones; Important reactions such as - Nucleophilic addition reactions (addition of HCN.NH_3, and its derivatives), Grignard reagent; Oxidation: reduction (Wolf Kishner and Clemmensen); The acidity of <i>a</i>-hydrogen. Aldol condensation, Cannizzaro reaction. Haloform reaction, Chemical tests to distinguish between aldehydes and Ketones. Carboxylic Acids Acidic strength and factors affecting it. 					
18	ORGANIC COMPOUNDS CONTAINING NITROGEN	 General methods of preparation. Properties, reactions, and uses. Amines: Nomenclature, classification structure, basic character, and identification of primary, secondary, and tertiary amines and their basic character. Diazonium Salts: Importance in synthetic organic chemistry. 					
19	BIOMOLECULES	 General introduction and importance of biomolecules. CARBOHYDRATES - Classification; aldoses and ketoses: monosaccharides (glucose and fructose) and constituent monosaccharides of oligosaccharides (sucrose, lactose, and maltose). PROTEINS - Elementary Idea of α-amino acids, peptide bond, polypeptides. Proteins: primary, secondary, tertiary, and quaternary structure (qualitative idea only), denaturation of proteins, enzymes. VITAMINS - Classification and functions. NUCLEIC ACIDS - Chemical constitution of DNA and RNA. Biological functions of nucleic acids. Hormones (General introduction) 					

	CHEMISTRY UPDATED NEET 2024 SYLLABUS					
		US				
SL.NO	CHAPTER NAME	TOPICS	ADDED TOPICS IF ANY	DELETED TOPICS IF ANY		
20	PRINCIPLES RELATED TO PRACTICAI, CHEMISTRY	 Detection of extra elements (Nitrogen, Sulphur, halogens) in organic compounds; Detection of the following functional groups; hydroxyl (alcoholic and phenolic), carbonyl (aldehyde and ketones) carboxyl, and amino groups in organic compounds. The chemistry involved in the preparation of the following: Inorganic compounds; Mohr's salt, potash alum. Organic compounds: Acetanilide, p-ritro acetanilide, aniline yellow, iodoform. The chemistry involved in the titrimetric exercises - Acids, bases and the use of indicators, oxalicacid vs KMnO_4, Mohr's salt vs KMnO_4 Chemical principles involved in the qualitative-salt analysis: Cations - Pb^(2+),Cu^(2+),Al^(3+),Fe^(3+),Zn^(2+),Ni^(2+),Ca^4(2+),Ba^4(2+),Ng^4(2+),NH_4A+ Anions-CO_3^{(2-)},S^{(2-)},SO_4^{(2-)},^NO,NO^{(2)}),Cl^-,Br^-,I^-(Insoluble salts excluded). Chemical principles involved in the following experiments: 1.Enthalpy of solution of CuSO_4 2.Enthalpy of neutralization of strong acid and strong base. 3.Preparation of lyophilic and lyophobic sols. 4.Kinetic study of the reaction of iodide ions with hydrogen peroxide at room temperature. 				
21	STATES OF MATTER	DELETED				
22	HYDROGEN	DELETED				
23	s-BLOCK ELEMENTS		DELETED			
24	ENVIRONMENTAL CHEMISTRY	DELETED				
25	SOLID STATE		DELETED			
26	SURFACE CHEMISTRY		DELETED			
	PRINCIPLES AND PROCESSES OF ISOLATION OF ELEMENTS		DELETED			
28	POLYMERS		DELETED			
		DELETED				