

S.No.	Dispatch Date	PHYSICS	MATHS	CHEMISTRY	
1	14-05-2019 Main Practice Test -1 (XI Syllabus)	Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion & Newton's law's of Motion	Fundamentals of Mathematics-I (Representation of sets, Types of sets, Subset, superset, power set, Operations on sets : $A \cup B$, $A \cap B$, $A - B$, $A \Delta B$, Venn Diagrams, De-Morgans law, Cardinal No. problems, Method of Interval, Logarithm : Definition, Identity, Properties, Graph, Logarithm equation, Logarithmic Inequalities, Characteristic and mantissa : Anti log Log table), Quadratic Equation, Trigonometry	Introduction to Chemistry (Basic definition : amu, GMM, GAM, mole, Avogadro's number, Mole-mass-number conversion for atoms/molecules, Avg. molar mass, units of P, T, V and interconversion, $PV=nRT$ & Question based on it, STP), Atomic Structure, Mole Concept (Density, % Composition by mass, by mole, Minimum Molecular Mass Determination)	Structural Isomerism, Structural Identification, (ABC-1 (Alkane, Alkene, Alkyne, Benzene) & ABC-2 (Phenol, Aniline)
2	18-06-2019 Adv. Practice Test -1 (XI Syllabus)	Rectilinear Motion, Projectile Motion, Relative Motion, Newton's law's of motion, Friction, Work, Power & Energy, Circular Motion, Centre of mass (Calculation of COM of system of particles)	Fundamentals of Mathematics-I, Quadratic Equation, Trigonometry, Sequence & Series, Fundamentals of Mathematics-II (Modulus function : Definition, Equations, Graphs of Modulus (Linear only), Equations involving Modulus, Inequalities involving modulus, Graphs related to modulus, Graphical transformations of modulus, Irrational Inequalities, Signum Function, Dirichlet Function, Greatest Integer & Fractional part And Its Properties, Graphs of $[x]$, $\{x\}$, Graphical transformations)	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state 1 (Boyle's law, Charles's law, Gay-lussac's law, Avogadro's hypothesis, Barometer & faulty barometer, Ideal gas Equation, Connecting vessels problems, Dalton's law and its applications, Graham's law of diffusion & effusion)	ABC-1 & 2, ABC-3 (R-X, ROH), Periodic Table, Basic Inorganic Nomenclature (BIN) & Chemical Bonding-1 (Types of bonding (Definitions of Ionic, bond Covalent bond and Metallic bond), and octet rule, Limitations of octet rule, Formal charge, Writing the Lewis dot structure, Writing resonating structures, finding average bond order, Stability of resonating structures, Finding bond order in oxoanions and their acids, VBT, overlapping of orbital, Hybridisation,
3	25-06-2019 Main Practice Test -2 (XI Syllabus)	Rectilinear Motion, Projectile Motion, Relative Motion, Newton's law's of motion, Friction, Work, Power & Energy, Circular motion, Centre of Mass, Rigid Body Dynamics	Fundamentals of Mathematics-I, Quadratic Equation, Trigonometry, Sequence & Series, Fundamentals of Mathematics-II, Binomial Theorem, Permutation & Combination (Fundamental principle of counting, Permutation and arrangements of objects, Combination, Arrangement of object with few object same, Selection of one or more object)	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state 1 (Boyle's law, Charles's law, Gay-lussac's law, Avogadro's hypothesis, Barometer & faulty barometer, Ideal gas Equation, Connecting vessels problems, Dalton's law and its applications, Graham's law of diffusion & effusion, KTG, Maxwell's distribution of gas velocities, Eudiometry), Chemical Equilibrium, s-block	Periodic Table, BIN, ABC-1 & 2, Chemical Bonding-1 & Chemical Bonding-2 (VSEPR, Hybridization, Bond angle & Bond length / Bond Strength)
4	02-07-2019 Adv. Practice Test -2 (XI Syllabus)	Rectilinear Motion, Projectile Motion, Relative Motion, Newton's law's of motion, Friction, Work, power, energy, Circular Motion, Centre of mass, Rigid Body Dynamics & Simple Harmonic Motion, Fluid mechanics, Surface tension, Elasticity & Viscosity	Fundamentals of Mathematics-I, Quadratic Equation, Trigonometry, Sequence & Series, Fundamentals of Mathematics-II, Binomial Theorem, Permutation & Combination, Straight Line, Circle	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state 1, Chemical Equilibrium, s-block, Thermodynamics, Ionic Equilibrium (Elementary)	ABC-1, 2, 3 to ABC-4 (Carbonyl, Carboxylic acid), Chemical Bonding-1 & 2, Chemical Bonding-3 (Type of p bonding (pp-pp & pp dp bond) & Coordinate bonding, Electron deficient bonding & Back bonding, Hydrogen Bonding), Chemical Bonding-4 (Molecular Orbital Theory, Application of Molecular Orbital Theory), Chemical Bonding-5 (Metallic Bonding, Van der Waal's Forces & Fajan Rule, Dipole moment, Acidic and Basic Character) & General Organic Chemistry-1 (GOC-1) (Inductive effect Resonance)
5	16-07-2019 PT-1 (Adv.)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics (Introduction, Laws of reflection, Plane mirror, Motion of object, Reflection through curve surface and Focal length of mirror, Mirror formula)	Fundamentals of Mathematics, Quadratic Equation - Equation vs identity, sum product formulae, Higher degree equations sum product also, Nature of roots of quadratic	Mole Concept, Quantum Mechanical model of atom (QMM)	IUPAC Nomenclature & Structural isomerism & Structure Identification
6	06-08-2019 CT-1 (Main)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, Newton's laws of Motion (NLM)	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & Inverse Trigonometric Function (ITF)	Mole Concept, QMM, Periodic Table & Real Gases, Chemical Bonding-1 (Types of chemical bond and octet rule, Lewis dot structures, Limitations of octet rule, Formal charge, resonance, Bond order in oxoanions VBT, Overlapping of orbitals)	IUPAC Nomenclature, Structural isomerism, Structure Identification, Practical Organic Chemistry (POC-I), General Organic Chemistry (GOC-1) (I-effect, +I, -I, their order and applications, Resonance : Definition, condition and writing resonating structures, Stability of R.S., R.E., application of resonance eg., stability of alkenes, B.L., Mesomeric effect eg., +m, -m effect, Application of m effect i.e., e- density, B.L.

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7	20-08-2019 CT-1 (Adv.)	Rectilinear Motion, Projectile Motion, Relative motion, Geometrical Optics, NLM, Friction, Work, Power, Energy (WPE), Electrostatics (Electric charge, Coulomb's Law, Problems of Coulomb's law, Electrostatic Equilibrium, Electric field due to point charge, line charge, ring)	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & ITF, Sequence & Series	Mole Concept, QMM, Periodic Table & Real Gases, Chemical Bonding-1, Chemical Bonding-2 (VSEPR, Hybridization), Chemical Bonding-3 (Type of pi-bonding (pp-pp & pp dp bond) & Coordinate bonding, Electron deficient bonding & Back bonding, Multicentered molecules, Hydrogen Bonding & Molecular Orbital Theory) Chemical Bonding-4 (Application of Molecular Orbital Theory, Metallic Bonding)	IUPAC Nomenclature, Structural isomerism, Structure Identification & POC-I, GOC-I (I-effect, +I, -I, their order and applications, Resonance : Definition, condition and writing resonating structures, Stability of R.S., R.E., application of resonance eg., stability of alkenes, B.L., Mesomeric effect eg., +m, -m effect, Application of m effect i.e., e-density, B.L., Hyperconjugation and their application B.L., stability of alkenes, Application of electronic effect, Aromaticity, definition, condition, Aromaticity in cations anions, Annulenes, Azulene anti aromatic compounds)
8	10-09-2019 CT-2 (Main)	Rectilinear Motion, Projectile Motion, Relative Motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity (Current density and Resistance, Electric power and battery)	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & ITF, Statistics, Sequence & Series, Matrices & Determinant, Straight Line	Mole Concept, QMM, Periodic Table & Real Gases, Chemical Bonding-1 to 4, Chemical Bonding-5 (Van der Waal's Forces & Fajan Rule, Dipole moment, Acidic and Basic Character), Chemical Equilibrium	POC-I, GOC-I & GOC-II (Carbocations: Structure, shape, hybridization and stability of carbocations, Rearrangement of carbocations, Stability of F.R.'s, Carbanions, Acidic Strength of organic compounds, Basic strength of organic compounds)
9	08-10-2019 PT-2 (Adv.)	Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Centre of Mass (Definition and calculation of COM, Motion of COM, Momentum conservation, Spring mass system & Impulse, Collision, head on, Oblique collision)	Quadratic Equation, Function & ITF, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability (Definition + LHL \ RHL, Indeterminate forms, Fundamental theorem, Method of Removing indeterminacy, Factorization, Rationalization, use of standard limit, Use of substitution, Infinite Limits, use of expansion, series expansion, Binomial expansion. Finding a, b, c for existence of Limits, L - Hop'tal rule, Limit of the form 1^∞ , 0^0 , ∞^0 , Limit of the form $\infty - \infty$, Sandwich Theorem, Miscellaneous Problems on limits	Periodic Table, Real Gases, Chemical Bonding, Chemical Equilibrium & Ionic Equilibrium (Elementary)	POC-I, GOC-I & GOC-II, Stereoisomerism (Mains)
10	26-11-2019 CT-3 (Main)	Rectilinear Motion, Projectile Motion, Relative motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Centre of mass, Rigid Body Dynamics (RBD), Simple Harmonic Motion (SHM), String wave, Sound wave (Propagation of sound waves, Pressure wave and speed of sound waves)	Fundamentals of Mathematics, Quadratic Equation, Relation, Function & ITF, Statistics, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Mathematical Reasoning, Application of Derivatives, Conic Section, Indefinite Integration	Mole Concept, QMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I (Dry test - solubility chart, Dilute H_2SO_4 , Group Acidic radicals : CO_3^{2-} , SO_3^{2-} , S^{2-} , NO_2^- , CH_3COO^- , Conc. H_2SO_4 Group Acidic radicals, Analysis of SO_4^{2-} , PO_4^{3-} , BO_3^{3-}) p-Block (Halogen & Noble gases)	Stereoisomerism (Mains), Organic Reaction Mechanisms-I (ORM-1) (Electrophile, Nucleophile & Nucleophilicity, Leaving group ability & Solvent, Introduction to reaction mechanism & Reaction of acidic hydrogen, Nucleophilic addition reaction of carbonyl compounds (HCN & GR), S_N2 Th reaction of acid (Estrification), S_N2 Th reaction of acid derivatives (RCOOH, ROH, NH_3 , $RMgX$, CN^- , $LiAlH_4$ & Hydrolysis) & ORM-II (Electrophilic Aromatic substitution reaction (Halogenation, nitration sulphonation), Directive influence & o/p ratio, Friedel craft Alkylation, Friedel craft Acylation reaction & its limitations, Free radical substitution of alkane, Free radical substitution by NBS & Free radical addition reaction, Electrophilic addition reaction of alkene (X_2 , HOX, HX), Electrophilic addition reaction of alkene (H_2O / H^+ , $(CH_3COO)_2Hg, H_2O / NaBH_4$ & B_2H_6 / H_2O_2), Electrophilic addition reaction of alkyne (X_2 , HOX, HX, H_2SO_4 / Hg^{2+} & B_2H_6 / H_2O_2), Reduction, Oxidation
11	PT-3 (Adv.) 17-12-2019	RBD, SHM, String wave, Sound wave, Wave optics, Electro Magnetic Effect (EMF) (Magnet, Magnetic field due to moving charge, biot Savart's law, Magnetic field due to straight wire, arc, ring, Magnetic field due to solenoid, Amperes law)	Limits, Continuity & Derivability, Application of Derivatives, Conic Section, Indefinite Integration, Definite Integration & Its Application, Differential Equation	Coordination compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I, p-Block (Halogen & Noble gases), Chemical Kinetics & Radioactivity & Qualitative Analysis-II (Analysis of cationic radical, Zero group, first group, Analysis of cationic radical, 2nd group, Analysis of cationic radical 3rd group, Analysis of cationic radical 4th, 5th & 6th group)	ORM-I & ORM-II, Reduction, Oxidation & Hydrolysis, ORM-III (Nucleophilic Substitution Reaction S_N1 (Alkyl halide, Alcohol and Ether), Nucleophilic Substitution Reaction S_N2 (Alkyl halide, Alcohol and Ether), Nucleophilic Substitution Reaction S_N2 & S_Ni , Nucleophilic Substitution Reaction S_N2Ar
12	31-12-2019 AIOT-1 (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
13	01-01-2020 MMT-1 (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
14	03-01-2020 MMT-2 (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus

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15	04-02-2020 CT-2 (Adv.)	Rectilinear Motion, Projectile Motion, Relative motion, Geometrical Optics, NLM, Friction, WPE, Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion, Centre of mass, RBD, SHM, String wave, Sound wave, Wave optics, EMF, Electro Magnetic Induction (EMI), Alternating current (AC), Modern physics, Nuclear Physics, Fluid mechanics (Fluid Statics- Pressure, Fluid Statics-Barometer, Manometer, Pascals law and applications, Buoyancy, Fluid Dynamics- pressure in a moving fluid)	Fundamentals of Mathematics, Quadratic Equation, Function & ITF, Sequence & Series, Matrices & Determinant, Straight Line, Circle, Limits, Continuity & Derivability, Application of Derivatives, Conic Section, Indefinite Integration, Definite Integration & Its Application, Differential Equation, Vector & 3-D, Complex Number	Mole Concept, QMM, Periodic table, Real Gas, Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination compounds, Electrochemistry, Metallurgy, Qualitative Analysis-I, p-Block Elements (Halogen & Noble gases), Chemical Kinetics & Radioactivity, Qualitative Analysis-II, Solution & Colligative Properties & Surface Chemistry, s-block Elements, Solid State	ORM-IV (Elimination Reaction E1 & E2 & E1cb, Elimination Reaction E1 & E2 & E1cb), Aromatic Compound, Preparation of Hydrocarbon, Carbonyl compounds - Preparation of Carbonyl compounds, Nucleophilic addition reaction, Addition of ROH, NH ₃ and its derivatives, Beckmann rearrangement, Condensation reaction eg., aldol condensation, Perkin, Benzoin condensation etc.
16	18-02-2020 AIOT-2 (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
17	07-03-2020 MT (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
18	10-03-2020 MT (Adv.)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
19	16-03-2020 JPT-1 (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
20	24-03-2020 JPT-2 (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
21	31-03-2020 JPT-3 (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
22	28-04-2020 JPT-1 (Adv.)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
23	05-05-2020 AIOT (Adv.)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
24	12-05-2020 JPT-2 (Adv.)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus