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Distance Learning Programmes Division (DLPD)

Academic Session : 2019-2020

ALL INDIA TEST SERIES (AITS)

JEE (Main) | JEE (Main + Advanced)



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* To appear in Computer Based Test (CBT), Enroll in AITS 2 weeks before Test Date.

Topper's Speak



AIR-29 (Gen.)
JEE (Main) 2019

“ The study material help me a lot for my performance in Jee main exam. difficulty level is very good and it enhance my rank. the variation of the problems also helpful and effective. Practice on CBT is a nice initiative for DLP students. analysis of performance is very effective. ”

KOUSTAV SEN | Reso Roll No.:17607804

AITS Schedule - JEE (Main) & JEE (Main + Advanced)

JEE (Main) | Class XI

S.No.	Test Code	Online/Postal Mode
1	PT-1	01-Jul-19
2	CT-1	08-Jul-19
3	PT-2	29-Jul-19
4	CT-2	26-Aug-19
5	PT-3	23-Sep-19
6	CT-3	11-Nov-19
7	CT-4	02-Dec-19
8	PT-4	23-Dec-19
9	MT	30-Dec-19
10	AIOT	10-Feb-20

JEE (Main + Advanced) | Class XI

S.No.	Test Code	Live Mode	Online/Postal Mode
1	PT-1 (Adv.)	30-Jun-19	01-Jul-19
2	CT-1 (Main)	07-Jul-19	08-Jul-19
3	CT-1 (Adv.)	28-Jul-19	29-Jul-19
4	CT-2 (Main)	25-Aug-19	26-Aug-19
5	PT-2 (Adv.)	22-Sep-19	23-Sep-19
6	CT-2 (Adv.)	10-Nov-19	11-Nov-19
7	CT-3 (Main)	01-Dec-19	02-Dec-19
8	PT-3 (Adv.)	22-Dec-19	23-Dec-19
9	MT (Main)	29-Dec-19	30-Dec-19
10	MT (Adv.)	05-Jan-20	06-Jan-20
11	AIOT (Main)	09-Feb-20	10-Feb-20

JEE (Main) | Class XII/XIII

AITS with CBT				Online/Postal AITS
S.No.	Test Code	Live (Pen Paper/CBT/Online)	Online/Postal	Postal/Online Dates
1	Practice Test -1 (XI Syllabus)	Online	14-May-19	14-May-19
2	Practice Test -2 (XI Syllabus)	Online	25-Jun-19	25-Jun-19
3	PT-1	Pen Paper	14-Jul-19	17-Jul-19
4	CT-1	CBT	04-Aug-19 (CBT)	
5	PT-2	Pen Paper	18-Aug-19	21-Aug-19
6	CT-2	CBT	08-Sep-19 (CBT)	
7	PT-3	Pen Paper	06-Oct-19	09-Oct-19
8	CT-3	CBT	08-Dec-19 (CBT)	
9	PT-4	Pen Paper	15-Dec-19	18-Dec-19
10	AIOT-1	CBT	29-Dec-19 (CBT)	
11	MMT-1	Online	01-Jan-20	01-Jan-20
12	MMT-2	Online	03-Jan-20	03-Jan-20
13	AIOT-2	Pen Paper	16-Feb-20	18-Feb-20
14	MT	Online	07-Mar-20	07-Mar-20
15	JPT-1	Online	16-Mar-20	16-Mar-20
16	JPT-2	CBT	22-Mar-20 (CBT)	
17	JPT-3	CBT	29-Mar-20 (CBT)	

JEE (Main + Advanced) | Class XII/XIII

AITS with CBT				Online/Postal AITS
S.No.	Test Code	Live (Pen Paper/CBT/Online)	Online/Postal	Postal/Online Dates
1	Practice Test -1 (JEE-Main (XI Syllabus))	Online	14-May-19	14-May-19
2	Practice Test -1 (JEE-Adv. (XI Syllabus))	Online	18-Jun-19	18-Jun-19
3	Practice Test -2 (JEE-Main (XI Syllabus))	Online	25-Jun-19	25-Jun-19
4	Practice Test -2 (JEE-Adv. (XI Syllabus))	Online	02-Jul-19	02-Jul-19
5	PT-1 (Adv.)	Pen Paper	14-Jul-19	16-Jul-19
6	CT-1 (Main)	CBT	04-Aug-19 (CBT)	
7	CT-1 (Adv.)	Pen Paper	18-Aug-19	20-Aug-19
8	CT-2 (Main)	CBT	08-Sep-19 (CBT)	
9	PT-2 (Adv.)	Pen Paper	06-Oct-19	08-Oct-19
10	CT-3 (Main)	CBT	08-Dec-19 (CBT)	
11	PT-3 (Adv.)	Pen Paper	15-Dec-19	17-Dec-19
12	AIOT-1 (Main)	CBT	29-Dec-19 (CBT)	
13	MMT-1 (Main)	Online	01-Jan-20	01-Jan-20
14	MMT-2 (Main)	Online	03-Jan-20	03-Jan-20
15	CT-2 (Adv.)	CBT	02-Feb-20 (CBT)	
16	AIOT-2 (Main)	Pen Paper	16-Feb-20	18-Feb-20
17	MT (Main)	Online	07-Mar-20	07-Mar-20
18	MT (Adv.)	Online	09-Mar-20	09-Mar-20
19	JPT-1 (Main)	Online	16-Mar-20	16-Mar-20
20	JPT-2 (Main)	CBT	22-Mar-20 (CBT)	
21	JPT-3 (Main)	CBT	29-Mar-20 (CBT)	
22	JPT-1 (Adv.)	Pen Paper	26-Apr-20	28-Apr-20
23	AIOT (Adv.)	CBT	03-May-20 (CBT)	
24	JPT-2 (Adv.)	CBT	10-May-20 (CBT)	

Test Timings of All India Test Series for Class XI and XII/XIII

Test Type	Subject	Test Time
For JEE (Main) Pattern Test	PCM	09:30 am to 12:30 pm
Test Type	Subject	Test Time
For JEE (Advanced) Pattern Test	Paper 1 (PCM)	09:30 am to 12:30 pm
	Paper 2 (PCM)	02:30 pm to 05:30 pm

NOTE

- CT: Cumulative Test
- PT: Part Test
- MT: Major Test
- CBT: Computer Based Test
- AIOT: All India Open Test
- JPT: JEE Preparatory Test
- FST: Full Syllabus Test
- MMT: Main Major Test

JEE (Main + Advanced) All India Test Series Syllabus | Class XII/XIII

S.No.	Test Name	PHYSICS	MATHS	CHEMISTRY	
1	JEE (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	JEE (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	JEE (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 & 2, Chemical Bonding-2 (VSEPR, Hybridization, Bond angle & Bond length / Bond Strength)
4	JEE (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	PT-1 JEE (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	CT-1 JEE (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 e.g., stability of alkenes, B.L., Mesomeric effect e.g., +m, -m effect, Application of m effect i.e., e- density, B.L.
7	CT-1 JEE (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 e.g., stability of alkenes, B.L., Mesomeric effect e.g., +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)

S.No.	Test Name	PHYSICS	MATHS	CHEMISTRY	
8	CT-2 JEE (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	PT-2 JEE (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	CT-3 JEE (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 JEE (Adv.)	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	AIOT-1 JEE (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
13	MMT-1 JEE (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
14	MMT-2 JEE (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
15	CT-2 JEE (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.

S.No.	Test Name	PHYSICS	MATHS	CHEMISTRY	
16	AIOT-2 JEE (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
17	MT JEE (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
18	MT JEE (Adv.)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
19	JPT-1 JEE (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
20	JPT-2 JEE (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
21	JPT-3 JEE (Main)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
22	JPT-1 JEE (Adv.)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
23	AIOT JEE (Adv.)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus
24	JPT-2 JEE (Adv.)	Full Syllabus	Full Syllabus	Full Syllabus	Full Syllabus

JEE (Main + Advanced) All India Test Series Syllabus | Class XI

S.No.	Test Name	PHYSICS	MATHS	CHEMISTRY	
1	PT-1 JEE (Adv.)	Mathematical Tools	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, Logarithmic equation, Logarithmic Inequalities, Characteristic and mantissa, Anti log Log table)	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 (Discovery of subatomic particles (Cathode+Anode Rays) , Thomson, Rutherford, Estimation of closest approach, Some terms (Isotopes, Isobars, Isotones, Iseolectronic), Electromagnetic Radiations (properties of waves))	IUPAC-Nomenclature of non-chain terminating Functional groups (-OH, -SO ₃ H, Ketone, thiols and amines)
2	CT-1 JEE (Main)	Mathematical Tools, Rectilinear Motion , Projectile Motion, Relative Motion (Relative motion in 1-D)	Fundamentals of Mathematics-I, Quadratic Equation	Introduction to Chemistry & Atomic Structure (Discovery of subatomic particles (Cathode+Anode Rays), Thomson, Rutherford, Estimation of closest approach, Some terms (Isotopes, Isobars, Isotones, Iseolectronic), Electromagnetic Radiations (properties of waves), Planck's Quantum Theory, Black Body Radiation , Photoelectric Effect , Bohr's Atomic Model)	IUPAC Nomenclature (Introduction of s and p bond. Valencies of C, H, X, O & N. Degree of C, H & X and structure formula, Hybridization of carbon & DU of Hydrocarbon only, General formula, Bond Line formula, Structural formula and homologs, Classification of organic compound, aromatic compound (excluding huckel rule) bicyclic compound, spiro compound, General Rules of IUPAC Nomenclature, IUPAC-Nomenclature of Alkane & Cyclo alkane with simple side chain (Alkyl Radical), IUPAC-Nomenclature of Alkane & Cyclo alkane with complex alkyl radical, IUPAC-Nomenclature of Alkenes, alkynes, Cycloalkene and polyene, IUPAC-Nomenclature of non-chain terminating Functional groups (-OH, -SO ₃ H , Ketone, thiols and amines), IUPAC-Nomenclature of chain terminating Functional groups (Aldehyde & Carboxylic acids, (Amides, Oyl halide & Nitriles), IUPAC-Nomenclature of chain terminating Functional groups (Esters & Anhydride), IUPAC-Nomenclature of aromatic compounds, Structural Isomerism
3	CT-1 JEE (Adv.)	Mathematical Tools, Rectilinear Motion , Projectile Motion, Relative Motion, Newton's law's of motion (NLM) (Basic force, NLM 1st, 2nd, 3rd Law (Action Reaction), Tension, Normal force, System F.B.D, Problem of equilibrium & with acceleration, Constrained motion (String constrained), Constrained motion (wedge constrained))	Fundamentals of Mathematics-I, Quadratic Equation, Trigonometry	Introduction to Chemistry & Atomic Structure (Discovery of subatomic particles (Cathode+Anode Rays), Thomson, Rutherford, Estimation of closest approach, Some terms (Isotopes, Isobars, Isotones, Iseolectronic), Electromagnetic Radiations (properties of waves), Planck's Quantum Theory, Black Body Radiation , Photoelectric Effect , Bohr's Atomic Model, Spectrum, Spectral Lines, De Broglie's + Heisenberg, Quantum nos., Electronic configuration)	IUPAC Nomenclature, Structural Isomerism & Structural Identification & ABC-1 (Alkane, Alkene, Alkyne, Benzene)

S.No.	Test Name	PHYSICS	MATHS	CHEMISTRY	
4	CT-2 JEE (Main)	Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, Work, Power & Energy (Calculation of work by constant force (Tension, Normal, Friction and Pseudo forces), Work done By variable forces, area under the graph, Spring force)	Fundamentals of Mathematics-I, Quadratic Equation, Trigonometry, Sequence & Series, Mathematical Induction, 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)	Introduction to Chemistry, Atomic Structure, Mole Concept (Density, % Composition by mass, by mole, Minimum Molecular Mass Determination, Empirical & Molecular Formula, Stoichiometry, Equation based calculations, Concept of Limiting reagent, % Excess, % Yield, POAC, Sequence & Parallel Reactions, Mixture analysis & % Purity, Basics of oxidation number, Oxidizing and reducing agents)	Structural Identification & ABC-1, ABC-2 (Phenol, Aniline), ABC-3 (Alkylhalide, Alcohol, & Periodic Table)
5	PT-2 JEE (Adv.)	Work, Power & Energy, Circular Motion, Centre of Mass (COM) (Circular Motion introduction, Kinematics of circular motion, Relative Circular Motion, Circular motion in horizontal plane, Circular motion in vertical plane, Turning on roads / Banking of road, Centrifugal force, Effect of earth's rotation, Calculation of COM of system of particles)	Quadratic Equation, Trigonometry, Sequence & Series, Fundamentals of Mathematics-II, Binomial Theorem, Permutation & Combination (P & C) (Fundamental principle of counting, Permutation and arrangements of objects, Combination, Arrangement of object with few object same, Selection of one or more object, Formation of group and distribution of objects)	Atomic Structure, Mole Concept	Structural Identification & ABC-1, ABC-2, ABC-3 & 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)
6	CT-2 JEE (Adv.)	Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, Work, Power & Energy, Circular Motion, Centre of Mass, Rigid Body Dynamics (RBD)	Fundamentals of Mathematics-I, Quadratic Equation, Trigonometry, Sequence & Series, Fundamentals of Mathematics-II, Binomial Theorem, P & C, Solution of Triangle	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, Gaseous state-2 (Real gas Introduction, Vanderwaal's Equation & Verification, Virial equation, Critical phenomena, Reduced equation of state)	ABC-2 & ABC-3 & Periodic Table, BIN & Chemical Bonding-1, Chemical Bonding-2 (VSEPR, Hybridization, Bond angle & Bond length / Bond Strength) & Chemical Bonding-3 (Type of p bonding ($p\pi-p\pi$ & $p\pi-d\pi$ bond) & Coordinate bonding, Electron deficient bonding & Back bonding, Hydrogen Bonding)
7	CT-3 JEE (Main)	Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, Work, Power & Energy, Circular Motion, Centre of Mass, Rigid Body Dynamics (RBD), Simple Harmonic Motion (SHM), Fluid mechanics	Fundamentals of Mathematics-I, Quadratic Equation, Trigonometry, Sequence & Series, Mathematical Induction, Fundamentals of Mathematics-II, Binomial Theorem, P & C, Statistics, Mathematical Reasoning, Solution of Triangle, Straight Line	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state-1, Chemical Equilibrium, Gaseous state-2, s-block Elements & Thermodynamics (Introduction & Definitions + Graph Conversion, Reversible & Irreversible Proces, Introduction of First Law, Heat & Internal Energy, Calculation of Work - Isothermal, Isochoric & Isobaric)	Periodic Table, BIN & Chemical Bonding-1 to 3 & Chemical Bonding-4 (Molecular Orbital Theory, Application of Molecular Orbital Theory, Metallic Bonding, Van der Waal's Forces), Chemical Bonding-5 (Fajan Rule & Dipole moment, Acidic and Basic Character) ABC-4 (Carbonyl, Carboxylic acid)
8	PT-3 JEE (Adv.)	Surface Tension, Elasticity and viscosity, Units and dimensions, Errors and measurement	P & C, Solution of Triangle, Straight Line, Circle	Gaseous state-1, Chemical Equilibrium, Gaseous state-2, s-block Elements, Thermodynamics & Thermochemistry	Periodic Table, BIN & Chemical Bonding, ABC-4, General Organic Chemistry (GOC-1) (Inductive effect Resonance, Resonance effect (Drawing Structure), Mesomeric effect & SIR, Stability of Resonating structure, Hyperconjugation, Application of I.R., M HC effects (Bond Length & Electron density on benzene ring)
9	MT JEE (Main)	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
10	MT JEE (Adv.)	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
11	AIOT JEE (Main)	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS

JEE (Main) All India Test Series Syllabus | Class XII/XIII

S.No.	Test Name	PHYSICS	MATHS	CHEMISTRY	
1	JEE(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	JEE(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)
3	PT-1	Rectilinear Motion, Projectile Motion, Relative Motion	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
4	CT-1	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.
5	PT-2	Geometrical Optics, Newton's laws of Motion, Friction, Work Power & Energy	Quadratic Equation, Relations, Function & ITF, Statistics, Sequence & Series	Mole concept, QMM, Periodic table, Real Gas & Chemical bonding (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, VSEPR, Hybridization)	Structure Identification, POC-1 & 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 : bond length, stability of alkenes and heat of hydrogenation, Application of electronic effect, Aromaticity, definition, condition, Aromaticity in cations and anions, Annulenes, Azulene and anti aromatic compounds
6	CT-2	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 Gas, Chemical Bonding ((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, VSEPR, Hybridization, Type of pi-bonding (pp-pp & pp dp bond) & Coordinate bonding, Electron deficient bonding & Back bonding, Multicentered molecules, Hydrogen Bonding & Molecular Orbital Theory, Application of Molecular Orbital Theory, Metallic Bonding, 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)

S.No.	Test Name	PHYSICS	MATHS	CHEMISTRY	
7	PT-3	Electrostatics, Gravitation, Current Electricity, Capacitance, Circular Motion	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)	Chemical Bonding, Chemical Equilibrium, Ionic Equilibrium (Elementary), Coordination Compound, Nomenclature	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, Definition & conditions of tautomerism, % Enol content), Polymer, Stereoisomerism
8	CT-3	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, Relations, 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 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
9	PT-4	Centre of mass, RBD, SHM, String wave, Sound wave, Wave Optics, Electro Magnetic Waves (EMW), Solid & Semi Conductor, Principle of communication, Error & Measurement	Limits, Continuity & Derivability, Application of Derivatives, Mathematical Reasoning, Conic Section, Indefinite Integration, Definite Integration & Its Application	Coordination compound, Electrochemistry, Metallurgy, s-Block, p-Block (B & C) family, Equivalent concept, Chemical kinetics	ORM-II, ORM-III (Nucleophilic Substitution Reaction S_N1 (Alkyl halide, Alcohol), Nucleophilic Substitution Reaction S_N2 (Alkyl halide, Alcohol, Nucleophilic Substitution Reaction of ether & S_Ni Reaction of alcohol, Aromatic Nucleophilic Substitution Reaction S_N2Ar) & Reduction-Oxidation
10	AIOT-1	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
11	MMT-1	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
12	MMT-2	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
13	AIOT-2	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
14	MT	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
15	JPT-1	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
16	JPT-2	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
17	JPT-3	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS

JEE (Main) All India Test Series Syllabus | Class XI

S.No.	Test Name	PHYSICS	MATHS	CHEMISTRY	
1	PT-1	<p>Mathematical Tools (Function, Trigonometry, Slope, Curve, Differentiation, Rules of Diff., Chain Rule, Maxima & minima application of diff., Integral, Indefinite, Define Integration, Area under curve)</p>	<p>Fundamentals of Mathematics-I (FOM-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, Logarithmic Equation)</p>	<p>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)</p>	<p>IUPAC-Nomenclature (Introduction of s and p bond. Valencies of C, H, X, O & N. Degree of C, H & X and structure formula, Hybridization of carbon & DU of Hydrocarbon only, General formula, Bond Line formula, Structural formula and homologs, Classification of organic compound, aromatic compound (excluding huckel rule) bicyclic compound, spiro compound. General Rules of IUPAC Nomenclature, IUPAC-Nomenclature of Alkane & Cyclo alkane with simple side chain (Alkyl Radical), IUPAC-Nomenclature of Alkane & Cyclo alkane with complex alkyl radical, IUPAC-Nomenclature of Alkenes, alkynes, Cycloalkene and polyene, IUPAC-Nomenclature of non-chain terminating Functional groups (-OH, -SO₃H, Ketone, thiols and amines))</p>
2	CT-1	<p>Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion (Relative motion in 1-D)</p>	<p>Fom-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, Logarithmic Equation, Logarithmic Inequalities, Characteristic and mantissa, Anti log Log table), Quadratic Equation</p>	<p>Introduction to Chemistry & Atomic Structure (Discovery of subatomic particles [Cathode, Anode Rays, Thomson, Rutherford, Some terms (Isotopes, Isobars, Isotones, Isoelectronic), Electromagnetic Radiations (properties of waves), Planck's Quantum Theory, Black Body Radiation, Photoelectric Effect, Bohr's Atomic Model)</p>	<p>IUPAC Nomenclature (Introduction of s and p bond. Valencies of C, H, X, O & N. Degree of C, H & X and structure formula, Hybridization of carbon & DU of Hydrocarbon only, General formula, Bond Line formula, Structural formula and homologs, Classification of organic compound, aromatic compound (excluding huckel rule) bicyclic compound, spiro compound. General Rules of IUPAC Nomenclature, IUPAC-Nomenclature of Alkane & Cyclo alkane with simple side chain (Alkyl Radical), IUPAC-Nomenclature of Alkane & Cyclo alkane with complex alkyl radical, IUPAC-Nomenclature of Alkenes, alkynes, Cycloalkene and polyene, IUPAC-Nomenclature of non-chain terminating Functional groups (-OH, -SO₃H, Ketone, thiols and amines), IUPAC-Nomenclature of chain terminating Functional groups (Aldehyde & Carboxylic acids, (Amides, Oyl halide & Nitriles), IUPAC-Nomenclature of chain terminating Functional groups (Esters & Anhydride), IUPAC-Nomenclature of aromatic compounds), Structural Isomerism</p>
3	PT-2	<p>Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, Newton's Laws of Motion (NLM) (Basic force, NLM 1st, 2nd, 3rd Law (Action Reaction), Tension, Normal System F.B.D, Problem of equilibrium, Problem of acceleration, Constrained motion (string), Constrained motion (wedge), Weighing machine, spring, Spring balance, spring and string cut problem)</p>	<p>Quadratic Equation, Trigonometry</p>	<p>Introduction to Chemistry, Atomic Structure ((Discovery of subatomic particles [Cathode, Anode Rays, Thomson, Rutherford, Some terms (Isotopes, Isobars, Isotones, Isoelectronic), Electromagnetic Radiations (properties of waves), Planck's Quantum Theory, Black Body Radiation, Photoelectric Effect, Bohr's Atomic Model), Spectrum, Spectral Lines, De Broglie's, Heisenberg, Quantum nos., Electronic configuration)</p>	<p>Structural Isomerism, Structural Identification & ABC-1 (Alkane, Alkene, Alkyne, Benzene)</p>
4	CT-2	<p>Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, Work, Power & Energy (Calculation of work by constant force (Tension, Normal, Friction and Pseudo forces), Work done By variable forces, area under the graph, Spring force)</p>	<p>FOM-I, Quadratic Equation, Trigonometry, Sequence and series, Mathematical Induction, FOM-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)</p>	<p>Introduction to Chemistry, Atomic Structure, Mole Concept (Density, % Composition by mass, by mole, Minimum Molecular Mass Determination, Empirical & Molecular Formula, Stoichiometry, Equation based calculations, Concept of Limiting reagent, % Excess, % Yield, POAC, Sequence & Parallel Reactions, Mixture analysis & % Purity, Basics of oxidation number, Oxidizing and reducing agents)</p>	<p>Structural Identification & ABC-1, ABC-2 (Phenol, Aniline), ABC-3 (Alkyl halide, Alcohol) & Periodic Table</p>
5	PT-3	<p>Newton's Laws of Motion, Unit & Dimensions, Friction, Work Power & Energy, Circular Motion, Centre of Mass (Calculation of COM of system of particles, COM of distributed mass system (Ring, disc, sphere), Cavity concept (Negative Mass concept), Motion of COM, Linear momentum conservation)</p>	<p>Sequence and series, FOM-II, Binomial Theorem, Permutation & Combination (Fundamental principle of counting, Permutation and arrangements of objects, Combination, Arrangement of object with few object same)</p>	<p>Mole Concept, Gaseous State-1 (Boyle's law, Charles's law, Gay-lussac's law, Avogadro's hypothesis, Ideal gas Equation, Connecting vessels problems, Dalton's law, applications of Dalton's law, Graham's law of diffusion & effusion)</p>	<p>Basic Inorganic Nomenclature (BIN), Chemical Bonding (Types of bonding (Definitions of Ionic bond Covalent bond and Metallic bond) and octet rule, Limitations of octet rule, Writing the lewis dot structure, formal charge, Fajan's Rule)</p>

S.No.	Test Name	PHYSICS	MATHS	CHEMISTRY	
6	CT-3	Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, Newton's Laws of Motion, Unit & Dimensions, Friction, Work Power & Energy, Circular Motion, Centre of Mass, Rigid Body Dynamics	FOM-I, Quadratic Equaiton, Trigonometry, Sequence and series, Mathematical Induction, FOM-II, Binomial Theorem, Permutation & Combination, Statistics, Mathematical Reasoning	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state 1 (Boyle's law, Charle's law, Gay-lussac's law, Avogadro's hypothesis, Ideal gas Equation, Connecting vessels problems, Dalton's law, applications of Dalton's law, Graham's law of diffusion & effusion, KTG, Maxwell's distribution of gas velocities), Chemical Equilibrium, Gaseous state-2 (Real gas Introduction, Vanderwaal's Equation & Verification, Virial equation, Critical phenomena) s-block Elements	Periodic Table, BIN, & Chemical Bonding (Types of bonding (Definitions of Ionic bond Covalent bond and Metallic bond) and octet rule, Limitations of octet rule, Writing the lewis dot structure, formal charge, Fajan's Rule, Covalent & Coordinate bond, Writing resonating structures, finding average bond order, VBT, overlapping of orbital, VSEPR, Hybridization, Bond angle & Bond length / Bond Strength, Type of p bonding ($p\pi-p\pi$ & $p\pi-d\pi$ bond) & Coordinate bonding, Electron deficient bonding & Back bonding, Molecular Orbital Theory)
7	CT-4	Mathematical Tools, Rectilinear Motion, Projectile Motion, Relative Motion, NLM, Friction, Work, Power & Energy, Circular Motion, Centre of Mass, RBD, Simple Harmonic Motion (SHM), Fluid mechanics	FOM-I, Quadratic Equaiton, Trigonometry, Sequence and series, Mathematical Induction, FOM-II, Binomial theorem, Permutation & Combination, Statistics, Mathematical Reasoning, Solution of Triangle, Staight line (Rectangular Cartesian - coordinate system, Distance formula, Section formulas, Area of Δ , Slope formula, Condition of collinearity of 3 points, Equation of straight line in various forms, General form of Straight Line, Angle between two straight line in terms of slope, \parallel and \perp lines, Position of points w.r.t. line, Length of \perp Foot of \perp and image of points w.r.t. line, Ratio in which a line divides the line segment, Bisector of the angles between two lines, Special points of Δ , , Locus)	Introduction to Chemistry, Atomic Structure, Mole Concept, Gaseous state 1, Chemical Equilibrium, Gaseous state 2, s-block Elements & Thermodynamics (Introduction & Definitions, Graph Conversion, Reversible & Irreversible Process, Introduction of First Law, Heat & Internal Energy, Calculation of Work - Isothermal, Isochoric & Isobaric)	Periodic Table, BIN & Chemical Bonding (Types of bonding (Definitions of Ionic bond Covalent bond and Metallic bond) and octet rule, Limitations of octet rule, Writing the lewis dot structure, formal charge, Fajan's Rule, Covalent & Coordinate bond, Writing resonating structures, finding average bond order, VBT, overlapping of orbital, VSEPR, Hybridization, Bond angle & Bond length / Bond Strength, Type of p bonding ($p\pi-p\pi$ & $p\pi-d\pi$ bond) & Coordinate bonding, Electron deficient bonding & Back bonding, Molecular Orbital Theory, Dipole moment, Hydrogen Bonding, Van der Waal's Forces, Metallic Bonding, Acidiic & Basic character), ABC-4 (Carbonyl, Carboxylic acid)
8	PT-4	Simple Harmonic Motion, Fluid Mechanics	Permutation & Combination, Statistics, Mathematical Reasoning, Mathematical Induction, Solution of Triangle, Staight line.	Gaseous State-2, s-Block, Thermodynamics & Thermochemistry (Introduction & Definitions, Graph Conversion, Reversible & Irreversible Process, Introduction of First Law, Heat & Internal Energy, Calculation of Work - Isothermal, Isochoric & Isobaric, CP & CV, γ (gamma), Enthalpy, Adiabatic Process, Questions based on Work, Comparison between Isothermal and Adiabatic, Some other processes (Phase Transformation, Polytropic Process, Free Expansion, For solids & Liquids)	Periodic Table, BIN & Chemical Bonding, ABC-4, General Organic Chemistry-1 (GOC-1) (Inductive effect Resonance, Resonance effect (Drawing Structure), Mesomeric effect & SIR)
9	MT	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS
10	AJOT	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS	FULL SYLLABUS

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Fee Structure

Course Fee for JEE (Main + Advanced) | JEE (Main) | KVPY

Class XI (2 Year Programme) Target-2021

Class XI (2 Year Programme)	JEE(Main+ Adv.)	JEE(Main)
Mahapack VIRAAT Premium (with CBTs)	₹ 24000	₹ 18600
Mahapack VIRAAT (Postal)	₹ 23100	₹ 17100
Mahapack VIRAAT (Online)	₹ 20000	₹ 15000
Study Material Package (SMP+DPPs File)	₹ 13300	₹ 9900
All India Test Series - AITS with CBT(Live/Online/Postal)	₹ 15500	NA
All India Test Series - AITS (Postal)	₹ 11850	₹ 9000
Online All India Test Series*	₹ 6000	₹ 4500

Class XI Only (1 Year Programme) Target-2021

Class XI Only (1 Year Programme)	JEE(Main+ Adv.)	JEE(Main)
COMBO PACK (SMP+DPPs+AITS)	₹ 12600	₹ 9900
Online All India Test Series*	₹ 3000	₹ 2500
DPPs File (Postal)	₹ 1500	₹ 1200
KVPY (SA Stream) Complete Pack*	₹ 4000	
Online Test Series - KVPY (SA Stream)*	₹ 1300	

*No Scholarships

Class XII/XII Passed (1 Year Programme) Target-2020

Class XII/XII Passed (1 Year Programme)	JEE(Main+ Adv.)	JEE(Main)
Mahapack VIRAAT Premium (with CBTs)	₹ 23000	₹ 16900
Mahapack VIRAAT (Postal)	₹ 21500	₹ 15800
Mahapack VIRAAT (Online)	₹ 18500	₹ 13500
Study Material Package (SMP+DPPs File)	₹ 13300	₹ 9900
All India Test Series - AITS with CBT(Live/Online/Postal)	₹ 12500	₹ 8500
All India Test Series - AITS (Postal)	₹ 9850	₹ 7000
DPPs File (Postal)	₹ 2000	₹ 1500
Revision Package (Rank Booster+Ready Reckoner)	₹ 3000	₹ 1500
Rank Booster (PCM)*	₹ 2700	₹ 1200
Ready Reckoner*	₹ 350	₹ 300
Online Complete Test Prep (OAITS+TWTS+DPPs)	₹ 8500	₹ 6500
Online All India Test Series (OAITS)*	₹ 4500	₹ 3500
Online Practice Test Series	₹ 3000	₹ 2500
Topic wise Online Test Series (TWTS)*	₹ 3500	₹ 3000
DPPs (Online)*	₹ 2000	₹ 1500
KVPY (SX Stream) Complete Pack (Maths & Bio.)*	₹ 5100	
Online Test Series - KVPY (SX Stream) Maths/Bio*	₹ 1300	

Scholarships For Class XI, XII & XII Passed Students

S.No.	Scholarship Categories	(%)	Code
On CLASS X Examination basis			
1	State / National Boards: Declared / Published Merit List (Only Top -15)	50	1901
2	In Class X, A1 Grade (in Science and Maths Individually) or % should be $\geq 91\%$ (in Science and Maths Individually)	15	1902
3	In Class X, A1 Grade in Science and A2 Grade in Maths or vice versa / % should be $\geq 91\%$ in Sci. and in b/w 81% to 90% in Maths or vice versa.	10	1903
On CLASS XII Examination basis			
1	State / National Boards: Declared / Published Merit List (Only Top -15)	50	1904
2	All National / State Board $> 95\%$ (AGGR.)	20	1905
3	All National / State Board $> 90\%$ & $\leq 95\%$ (Aggr.)	15	1906
4	All National / State Board $> 85\%$ & $\leq 90\%$ (Aggr.)	10	1907
Other			
1	Sibling of Current DLPD Student (Students who enrolled in Complete Packs of any of the Classes)	10	1908
2	Sibling of Current YCCP Students	10	1909
On International Olympiad* basis			
1	International Olympiad* Medalist	50	1910
2	INMO/INPHO/INCHO/INBO/INAO Qualified	25	1911
3	RMO/NSEP/NSEC/NSEB/NSEA Qualified	15	1912
4	Pre-RMO Qualified	10	1913
On Kishore Vaigyanik Protsahan Yojana (KVPY) basis			
1	KVPY Final Round Qualified	50	1914
2	KVPY Stage-I Qualified	25	1915

S.No.	Scholarship Categories	(%)	Code
On National Talent Search Examination (NTSE) basis			
1	NTSE (Level-II) Qualified / Scholarship Winner	40	1916
2	NTSE (Level -I) Qualified	15	1917
For Old Student of Resonance (of Previous Sessions)			
1	Any old student of Resonance YCCP Division in any previous session	15	1918
2	Old student of Resonance DLPD Division in any previous session	10	1919
3	Old student of Resonance PCCP (Classroom) Division in any previous session	10	1920
On The Basis of JEE (Main) 2019 Ranks			
1	Common Rank List (CRL) Upto 5000	30	1921
2	Common Rank List (CRL) 5001- 10000	25	1922
3	Common Rank List (CRL) 10001 to 25000	20	1923
4	Common Rank List (CRL) 25001 to 50000	15	1924
5	Common Rank List (CRL) 50001 to 150000	10	1925
6	OBC-NCL/ST/SC RANK/ PwD/EWS (Any Category Rank)	10	1926
On The Basis of JEE (Advanced) 2019 Ranks			
1	Common Rank List (CRL) 1-7000	80	1932
2	Common Rank List (CRL) 7001- 10000	70	1933
3	Common Rank List (CRL) 10001- 20000	60	1934
4	Common Rank List (CRL) Above 20000	40	1935
5	OBC-NCL/ST/SC (ANY RANK)/PH RANK/Preparatory Rank (Any Category)	40	1936
6	PwD on JEE (Advanced) 2019 Qualification	40	1937

*Olympiads Conducted by Homi Bhabha Centre for Science Education (HBCSE). Performance in any other Olympiad will not be considered.

Note: Student moving to class XI/XII/XIII can claim the refund of Scholarship amount on the basis of class X Score/XII Score/NTSE/KVPY/HBCSE within 20 Days of result declaration of respective exams.

Reward Scheme for Distance Learning Students*

AIR in JEE (Advanced)/ JEE (Main)/NEET	Category	No. of Rewards	Reward Amount (₹)		Competitive Examination	Rank Type	Rank	Category	No. of Rewards	Reward Amount (₹)
			JEE (Adv.)	JEE (Main)/NEET						
1 st	GEN	1	125000	50000	JEE (Main)/NEET	ASR	1 st	GEN	1	5250
2 nd -10 th	GEN	9	50000	25000	JEE (Main)/NEET	ASR	1 st	OBC/SC/ST/PD each	4	1275
11 th -25 th	GEN	15	25000	18750	NLEEE	AIR	1 st	GEN	1	5250
26 th -50 th	GEN	25	18750	12750	NLEEE	AIR	1 st	OBC/SC/ST/PD each	4	2750
51 st -100 th	GEN	50	12750	7750	SLEEE	ASR	1 st	GEN	1	5250
1 st	OBC/SC/ST/PD each	1×4=4	7750	5250	SLEEE	ASR	1 st	OBC/SC/ST/PD each	4	1275
2 nd -5 th	OBC/SC/ST/PD each	4×4=16	5250	2750						

AIR: All India Rank; ASR: All State Rank; NLEEE: National Level Engineering Entrance Examination; SLEEE: State Level Engineering Entrance Examination Terms & Conditions:

1. Student who are enrolled in any Distance Learning Programme of JEE (Advanced)/JEE(Main)/NEET will be eligible for the rewards in 2020.
2. A Student can claim only one reward at a time.
3. Students enrolled in Distance learning Programmes other than Study Material Package & All India Test series will be eligible only for 50% of the reward amount.

*T & C Apply

Know your Registration Details,
Dispatch Status & AITS Result through
Student Zone @

www.dlpd.resonance.ac.in
Study Material Delivery: 7 to 15
days based on address for delivery
Dispatch Query / Complaint
9529452199

(10:00 AM to 5:00 PM)

Points to Remember

1. Every student enrolled in any of the Distance Learning Programmes is required to submit the photocopies of his/her filled up JEE (Main)/JEE (Advanced)/NEET Application Form as and when asked by the institute.
2. Postal Test Papers will be dispatched according to the Test Schedule. Resonance will not be responsible for any transit delay.
3. The institute will have all the rights to use any of its enrolled (in any of the DLPD courses) student's performance /success in JEE (Main)/JEE (Advanced)/NEET, KVPY & Olympiads and their photographs for its growth strategies and promotional plans in future.
4. Overseas students will have to bear postal charges as actual.
5. Resonance reserves all the rights to make any changes in Dates, Timings and Duration of the AITS tests or any other changes according to convenience of the Students/institute.
6. All the legal matters are subject to Kota (Rajasthan) jurisdiction only.

How To Enroll

- Apply Online on www.edushoppee.com OR
- Get application form from any of the Study Centre (SC).
- Submit/Post the filled in Application Form (Photograph duly pasted), two extra photographs & Class X/XII marksheet, along with DD of required Course fee (drawn in favour of Resonance Eduventures Limited, payable at kota) to any of the Study Centre (SC) of Resonance or
- Submit the course fee through DD / Net Banking in Resonance's AXIS Bank a/c no. 912020018956650 (IFSC Code: UTIB0000228) & deposit the Bank receipt along with the form at any of SC of Resonance.



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Bareilly : 9760396910	Bhopal : 0744-6655044/5	Bhubaneswar : 0744-6655055	Berhampore : 9434364457	Bhilai : 9302184725
Chandrapur: 0744-6655277	Delhi : 0744-6655066/7/8	Durgapur : 9434332939/9547618884	*Gorakhpur : 9918995853	Gwalior : 0744-6655077
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Kanpur: 9305224096	Kolkata: 0744-6655144/5	Kota : 0744-2777756/6635556	Lucknow: 0744-6655555/6/7/8	Mumbai : 0744-6655220/1/2/3/4/5/6/7/8/9
Nagpur : 0744-6655233/44/55	Nanded: 0744-6655266	Nashik : 0744-6655155	Patna : 0744-6655511	Raipur : 0744-6655566
Rajkot: 0744-6655522	Ranchi : 0744-6655533	Surat : 0744-6655544/5	Udaipur: 0744-6655577/8	Vadodara : 0744-6655588
Varanasi : 9161448800/8765549689	* Test Center not available for AITS Class XI			



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