ALLEN CAREER INSTITUTE KOTA (RAJASTHAN)
path to success

JEE(Main+Advanced) : Topic Wise Syllabus & Schedule

For : Leader Computer Based Test Series (Class XII / XII Pass Students)

Test No.	Test Date	Test Type	Test Pattern	Test Timings	Mode of Test	Subject	Topics Covered
1	14/08/2022	REVIEW TEST-1 (Available in Online CBT mode for Practice)	JEE (MAIN) JEE (ADVANCED)	9 AM-12 NOON 1 PM-4 PM	**CBT AT CENTER**	Physics	Basic Mathematics used in Physics, Vectors, Units, Dimensions and Measurement, Electrostatics, Kinematics, Current electricity, Laws of Motion and Friction , Capacitors
						Chemistry	Mole Concept, Atomic structure, Organic nomenclature, Basic principles of practicalorganic chemistry, Periodic properties, Basic inorganic nomenclature, Chemical thermodynamics &Thermochemistry, GOC(complete)
						Mathematics	Logarithms, Trigonometric Ratios and Identities, Matrices & Determinants, Quadratic Equations & Linear Inequilities, Functions and Inverse Trignometric Function, Trigonometric Equations, Height and Distance ,Differential Calculus (Limit, Continuity , Differentiability , Differentiation)
2	25/09/2022	REVIEW TEST-2 (Available in Online CBT mode for Practice)	JEE (ADVANCED) (2 PAPERS)	P-1 : 9 AM-12 NOON P-2 : 1 PM-4 PM	**CBT AT CENTER**	Physics	Basic Mathematics used in Physics, Vectors, Units, Dimensions and Measurement, Electrostatics, Kinematics, Current electricity, Laws of Motion and Friction, Capacitors, Work, Energy & Power, Magnetic effect of current, Magnetism and Matter, Centre of Mass & Collisions, Electromagnetic Induction (EMI)
						Chemistry	Mole Concept, Atomic structure, Organic nomenclature, Basic principles of practicalorganic chemistry, Periodic properties, Basic inorganic nomenclature, Chemical thermodynamics & Thermochemistry, GOC(complete), Chemical Bonding, Solid state, Chemical kinetics, Isomerism, Chemical Equilibrium, State of Matter (Gaseous State), Redox & Equivalent Concept
						Mathematics	Logarithms, Trigonometric Ratios and Identities, Matrices & Determinants, Quadratic Equations & Linear Inequilities , Functions and Inverse Trignometric Function, Trigonometric Equations, Height and Distance ,Differential Calculus (Limit, Continuity , Differentiability , Differentiation), Point and Straight Line ,Indefinite integration, Circle, Definite integration
3	09/10/2022	UNIT TEST- 1	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Basic Mathematics used in Physics, Vectors, Units, Dimensions and Measurement, Electrostatics
						Chemistry	Mole Concept, Atomic structure, Organic nomenclature, Basic principles of practicalorganic chemistry
						Mathematics	Logarithms, Trigonometric Ratios and Identities, Matrices & Determinants
4	30/10/2022	UNIT TEST- 2	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Kinematics, Current electricity
						Chemistry	Periodic properties, Basic inorganic nomenclature, Chemical thermodynamics & Thermochemistry
						Mathematics	Quadratic Equations & Linear Inequilities , Functions and Inverse Trignometric Function

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5	06/11/2022	UNIT TEST- 3	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Laws of Motion and Friction ,Capacitors
						Chemistry	GOC(complete)
						Mathematics	Trigonometric Equations,Height and Distance, Differential Calculus (Limit, Continuity , Differentiability , Differentiation)
6	13/11/2022	UNIT TEST- 4	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Work, Energy & Power, Magnetic effect of current, Magnetism and Matter
						Chemistry	Chemical Bonding, Solid state, Chemical kinetics
						Mathematics	Point and Straight Line, Indefinite integration
7	20/11/2022	UNIT TEST- 5	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Centre of Mass & Collisions, Electromagnetic Induction (EMI)
						Chemistry	Isomerism, Chemical Equilibrium, State of Matter (Gaseous State), Redox & Equivalent Concept
						Mathematics	Circle, Definite integration
8	27/11/2022	REVIEW TEST-3	JEE (MAIN)	9 AM-12 NOON	**CBT AT CENTER**	Physics	Rotational Motion, Alternating current (AC), Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics), Ray optics and optical Instruments, Properties of matter and Fluid Mechanics, Gravitation, Wave optics (Nature of Light , Interference, Diffraction & Polarisation), Electromagnetic Waves
			JEE (ADVANCED)	1 PM-4 PM		Chemistry	Ionic Equilibrium, Acid Base theory, Nuclear chemistry, Reaction intermediate, Co-ordination compound, S-block elements & hydrogen, Boron & Carbon family, Haloalkane, Aryl Halide(Substitution & Elimination), Electrochemistry & Solution, Ores & Metallurgy
						Mathematics	Sequences and Series, Application of Derivatives (Maxima & Minima, Monotonicity, Tangent & Normal), Permutation & Combination and Binomial Theorem, Vectors, Complex Numbers, Principle of Mathematical Induction, Three Dimensional geometry
9	04/12/2022	UNIT TEST- 6	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Rotational Motion, Alternating current (AC)
						Chemistry	Ionic Equilibrium, Acid Base theory, Nuclear chemistry, Reaction intermediate
						Mathematics	Sequences and Series, Application of Derivatives (Maxima & Minima, Monotonicity, Tangent & Normal)
10	11/12/2022	UNIT TEST- 7	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics), Ray optics and optical Instruments
						Chemistry	Co-ordination compound, S-block elements & hydrogen, Boron & Carbon family
						Mathematics	Permutation & Combination and Binomial Theorem, Vectors

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Test No.	Test Date	Test Type	Test Pattern	Test Timings	Mode of Test	Subject	Topics Covered
11	18/12/2022	UNIT TEST- 8	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Properties of matter and Fluid Mechanics, Gravitation, Wave optics (Nature of Light , Interference, Diffraction & Polarisation), Electromagnetic Waves
						Chemistry	Haloalkane, Aryl Halide(Substitution & Elimination), Electrochemistry & Solution, Ores & Metallurgy
						Mathematics	Complex Numbers, Principle of Mathematical Induction, Three Dimensional geometry
12	25/12/2022	UNIT TEST- 9	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Simple Harmonic Motion, Modern Physics
						Chemistry	Alkane, Alkenes & Alkynes, Aromatic hydrocarbon, Organic compounds containing oxygen & nitrogen, Qualitative anaylsis
						Mathematics	Parabola, Ellipse & Hyperbola , Area under the curve and Differential Equations
13	01/01/2023	UNIT TEST- 10	JEE (ADVANCED)	1 PM-4 PM	ONLINE CBT AT DSAT	Physics	Waves(String & Sound waves), Practical Physics, Electronics and Communication systems
						Chemistry	Biomolecules (Carbohydrates, Amino Acid, Proteins), Polymer, Practical organic chemistry (Identification of elements & functional groups),Chemistry in everyday life, Environmental chemistry, Surface chemistry, d&f block element, p-block (nitrogen, oxygen, Fluorine & noble gas) family
						Mathematics	[Sets, Relation, Statistics, Mathematical Reasoning], Probability
14	08/01/2023	REVIEW TEST-4	JEE (ADVANCED) (2 PAPERS)	P-1 : 9 AM-12 NOON P-2 : 1 PM-4 PM	**CBT AT CENTER**	Physics	Rotational Motion, Alternating current (AC), Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics), Ray optics and optical Instruments, Properties of matter and Fluid Mechanics, Gravitation, Wave optics (Nature of Light , Interference, Diffraction & Polarisation), Electromagnetic Waves, Simple Harmonic Motion, Modern Physics, Waves(String & Sound waves), Practical Physics, Electronics and Communication systems
						Chemistry	Ionic Equilibrium, Acid Base theory, Nuclear chemistry, Reaction intermediate, Co-ordination compound, S-block elements & hydrogen, Boron & Carbon family, Haloalkane, Aryl Halide (Substitution & Elimination), Electrochemistry & Solution, Ores & Metallurgy, Alkane, Alkenes & Alkynes, Aromatic hydrocarbon, Organic compounds containing oxygen & nitrogen, Qualitative anaylsis, Biomolecules (Carbohydrates, Amino Acid, Proteins), Polymer, Practical organic chemistry (Identification of elements & functional groups), Chemistry in everyday life, Environmental chemistry, Surface chemistry, d&f block element, p-block (nitrogen, oxygen, Fluorine & noble gas) family
						Mathematics	Sequences and Series, Application of Derivatives (Maxima & Minima, Monotonicity, Tangent & Normal), Permutation & Combination and Binomial Theorem, Vectors, Complex Numbers, Principle of Mathematical Induction, Three Dimensional geometry, Parabola, Ellipse & Hyperbola, Area under the curve and Differential Equations, [Sets, Relation, Statistics, Mathematical Reasoning], Probability

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Major Test

Test No.	Test Date	Test Type	Test Pattern	Test Timings	Mode of Test	Subject	Topics Covered
1	15/01/2023	MAJORTEST	JEE (MAIN)	9 AM-12 NOON	**CBT AT CENTER**	Physics Chemistry Mathematics	Full Syllabus
2	22/01/2023	MAJORTEST	JEE (ADVANCED) (2 PAPERS)	P-1 : 9 AM-12 NOON P-2 : 1 PM-4 PM	ONLINE CBT AT DSAT	Physics Chemistry Mathematics	Full Syllabus
3	29/01/2023	MAJORTEST	JEE (MAIN)	9 AM-12 NOON	ONLINE CBT AT DSAT	Physics Chemistry Mathematics	Full Syllabus
4	05/02/2023	MAJORTEST	JEE (MAIN) (ALL INDIA OPEN TEST)	9 AM-12 NOON	**CBT AT CENTER**	Physics Chemistry Mathematics	Full Syllabus
5	12/02/2023	MAJORTEST	JEE (MAIN)	9 AM-12 NOON	ONLINE CBT AT DSAT	Physics Chemistry Mathematics	Full Syllabus
6	19/02/2023	MAJORTEST	JEE (MAIN) JEE (ADVANCED)	9 AM-12 NOON 1 PM-4 PM	**CBT AT CENTER**	Physics Chemistry Mathematics	Full Syllabus
7	26/02/2023	MAJORTEST	JEE (MAIN)	9 AM-12 NOON	ONLINE CBT AT DSAT	Physics Chemistry Mathematics	Full Syllabus
8	05/03/2023	MAJORTEST	JEE (MAIN) JEE (ADVANCED)	9 AM-12 NOON 1 PM-4 PM	ONLINE CBT AT DSAT	Physics Chemistry Mathematics	Full Syllabus
9	12/03/2023	MAJORTEST	JEE (MAIN) (ALL INDIA OPEN TEST)	9 AM-12 NOON	**CBT AT CENTER**	Physics Chemistry Mathematics	Full Syllabus
10	19/03/2023	MAJORTEST	JEE (MAIN) (ALL INDIA OPEN TEST)	9 AM-12 NOON	**CBT AT CENTER**	Physics Chemistry Mathematics	Full Syllabus
11	26/03/2023	MAJORTEST	JEE (ADVANCED) (2 PAPERS)	P-1 : 9 AM-12 NOON P-2 : 1 PM-4 PM	ONLINE CBT AT DSAT	Physics Chemistry Mathematics	Full Syllabus
12	02/04/2023	MAJORTEST	JEE (ADVANCED) (2 PAPERS)	P-1 : 9 AM-12 NOON P-2 : 1 PM-4 PM	**CBT AT CENTER**	Physics Chemistry Mathematics	Full Syllabus
13	16/04/2023	MAJORTEST	JEE (ADVANCED) (2 PAPERS) (ALL INDIA OPEN TEST)	P-1 : 9 AM-12 NOON P-2 : 2 PM-5 PM	**CBT AT CENTER**	Physics Chemistry Mathematics	Full Syllabus
14	30/04/2023	MAJORTEST	JEE (ADVANCED) (2 PAPERS) (ALL INDIA OPEN TEST)	P-1 : 9 AM-12 NOON P-2 : 2 PM-5 PM	**CBT AT CENTER**	Physics Chemistry Mathematics	Full Syllabus

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Major Test

NOTE :

1. ONLINE CBT : Attempt test from home in online mode on your device (PC, Laptop, Mobile) at DSAT (dsat.allen.ac.in) panel.
2. If the number of students are less /minimum at CBT Center then the test will be available on your DSAT (dsat.allen.ac.in) panel in ONLINE CBTmode (attempt test paper from home in online mode) as per the schedule.
3. Under any unforeseen circumstances, if it is not possible to conduct a test in **CBT** mode at center then the test will be available on your DSAT panel in **ONLINECBT** mode (attempt test paper from home in online mode) as per the schedule.
4. For each CBT Test, the student has to download and print their CBT Admit Card from **User Control Panel.**
5. For **JEE (MAIN)** pattern tests please refer JEE (MAIN) syllabus only.
6. Number of Tests/Dates/Timings/Pattern may differ according to the dates of Main Exams declared by the exam governing body.
7. Students who were not able to attempt the exam on the Test Date due to late registration or absence, can avail their missed exams as **Practice Test on DSAT** panel and will also get the All India Predicted Rank (PR) **after the AIR declaration** of the particular test.
8. DLP question paper & answer key will be available after completion the exam on DSAT (dsat.allen.ac.in) in PDF format (downloadable & printable format).
9. **ALL INDIA OPEN TEST**: To give students a vast exposure, ranking and analysis on national level; ALLENhas introduced All India Open Test for DLP students with its current CCP students, making ALLEN's DLPprogram to be unique and most benecial for the students community.