

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

For : Nurture Computer Based Test Series (Class XI Undergoing Students)

| Test No. | Test Date  | Test Type     | Test Pattern                 | Test Timings       | Mode of Test  | Subject     | Topics Covered   |
|----------|------------|---------------|------------------------------|--------------------|---|-------------|--|
| 1        | 14/08/2022 | REVIEW TEST-1 | JEE (MAIN)                   | 9 AM-12 NOON       | CBT AT CENTER<br>(Available in Online<br>CBT mode for Practice) | Physics     | Basic Mathematics used in Physics, Vectors, Units & Dimensions and Measurement, Kinematics, Laws of Motion and Friction  |
|          |            |               | JEE (ADVANCED)               | 1 PM-4 PM          |   | Chemistry   | Mole Concept, Atomic structure, Periodic properties, Basic inorganic nomenclature  |
|          |            |               |                              |                    |   | Mathematics | Logarithms, Trigonometric Ratios and Identities, Quadratic Equations & Linear Inequalities, Trigonometric Equations, Height and Distance   |
| 2        | 25/09/2022 | REVIEW TEST-2 | JEE (ADVANCED)<br>(2 PAPERS) | P-1 : 9 AM-12 NOON | CBT AT CENTER<br>(Available in Online<br>CBT mode for Practice) | Physics     | Basic Mathematics used in Physics, Vectors, Units & Dimensions and Measurement, Kinematics, Laws of Motion and Friction, Work, Energy & Power, Centre of Mass & Collisions   |
|          |            |               |                              | P-2 : 1 PM-4 PM    |   | Chemistry   | Mole Concept, Atomic structure, Periodic properties, Basic inorganic nomenclature, Chemical Bonding, Redox & equivalent concept, Chemical Equilibrium  |
|          |            |               |                              |                    |   | Mathematics | Logarithms, Trigonometric Ratios and Identities, Quadratic Equations & Linear Inequalities, Trigonometric Equations, Height and Distance, Point and Straight Line, Circle  |
| 3        | 08/01/2023 | REVIEW TEST-3 | JEE (MAIN)                   | 9 AM-12 NOON       | CBT AT CENTER<br>(Available in Online<br>CBT mode for Practice) | Physics     | Rotational Motion, Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics), Gravitation, Properties of matter and Fluid Mechanics  |
|          |            |               | JEE (ADVANCED)               | 1 PM-4 PM          |   | Chemistry   | Organic nomenclature, Basic principles of practical organic chemistry, State of matter (Gaseous State), Ionic Equilibrium, Acid Base theory, s-block elements & hydrogen, Boron & Carbon family, GOC (application of electronic effect, aromaticity, application of Inductive, Resonance, Hyperconjugation effect on stability of intermediates)   |
|          |            |               |                              |                    |   | Mathematics | Sequences and Series, Permutation & Combination and Binomial Theorem, Complex Numbers, Principle of Mathematical Induction   |
| 4        | 19/02/2023 | REVIEW TEST-4 | JEE (ADVANCED)<br>(2 PAPERS) | P-1 : 9 AM-12 NOON | CBT AT CENTER<br>(Available in Online<br>CBT mode for Practice) | Physics     | Rotational Motion, Thermal Physics (Thermal Expansion, Calorimetry, Heat Transfer, KTG & Thermodynamics), Gravitation, Properties of matter and Fluid Mechanics, Simple Harmonic Motion, Waves (String & Sound waves)  |
|          |            |               |                              | P-2 : 1 PM-4 PM    |   | Chemistry   | Organic nomenclature, Basic principles of practical organic chemistry, State of matter (Gaseous State), Ionic Equilibrium, Acid Base theory, s-block elements & hydrogen, Boron & Carbon family, GOC (application of electronic effect, aromaticity, application of Inductive, Resonance, Hyperconjugation effect on stability of intermediates), GOC (acidic & basic strength), isomerism (Geometrical & Structural), Alkane, Alkenes & Alkynes, Chemical thermodynamics & Thermochemistry, Aromatic hydrocarbon, environmental chemistry |
|          |            |               |                              |                    |   | Mathematics | Sequences and Series, Permutation & Combination and Binomial Theorem, Complex Numbers, Principle of Mathematical Induction, Parabola, Ellipse & Hyperbola, Functions, [Limits and Derivatives and Three Dimensional Geometry, Probability (All Elementary Level)], [Sets, Relation, Statistics, Mathematical Reasoning]  |



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## Major Test

| Test No. | Test Date  | Test Type  | Test Pattern                 | Test Timings       | Mode of Test  | Subject     | Topics Covered |
|----------|------------|------------|------------------------------|--------------------|---|-------------|----------------|
| 1        | 05/03/2023 | MAJOR TEST | JEE (ADVANCED)<br>(2 PAPERS) | P-1 : 9 AM-12 NOON | ONLINE CBT<br>(Available in Online<br>CBT mode for Practice)    | Physics     | Full Syllabus  |
|          |            |            |                              | P-2 : 1 PM-4 PM    |   | Chemistry   |                |
|          |            |            |                              |                    |   | Mathematics |                |
| 2        | 19/03/2023 | MAJOR TEST | JEE (MAIN)                   | 9 AM-12 NOON       | CBT AT CENTER<br>(Available in Online<br>CBT mode for Practice) | Physics     | Full Syllabus  |
|          |            |            |                              |                    |   | Chemistry   |                |
|          |            |            |                              |                    |   | Mathematics |                |
| 3        | 02/04/2023 | MAJOR TEST | JEE (ADVANCED)<br>(2 PAPERS) | P-1 : 9 AM-12 NOON | ONLINE CBT<br>(Available in Online<br>CBT mode for Practice)    | Physics     | Full Syllabus  |
|          |            |            |                              | P-2 : 1 PM-4 PM    |   | Chemistry   |                |
|          |            |            |                              |                    |   | Mathematics |                |
| 4        | 16/04/2023 | MAJOR TEST | JEE (MAIN)                   | 9 AM-12 NOON       | ONLINE CBT<br>(Available in Online<br>CBT mode for Practice)    | Physics     | Full Syllabus  |
|          |            |            |                              |                    |   | Chemistry   |                |
|          |            |            |                              |                    |   | Mathematics |                |
| 5        | 30/04/2023 | MAJOR TEST | JEE (ADVANCED)<br>(2 PAPERS) | P-1 : 9 AM-12 NOON | CBT AT CENTER<br>(Available in Online<br>CBT mode for Practice) | Physics     | Full Syllabus  |
|          |            |            |                              | P-2 : 2 PM-5 PM    |   | Chemistry   |                |
|          |            |            |                              |                    |   | Mathematics |                |

### 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 CBT mode (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 **ONLINE CBT** 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)."