

FIITJEE All India Test Series

for JEE (Main) & JEE (Advanced), 2013
(with Concept Strengthening & Analysis Program)

SCHEDULE

| S.No. | AIITS TEST | TEST DATE | TEST TIMING |
|--|---|---|---|
| 1 | Part Test - I (MAIN) | Saturday, November 17, 2012 | PCM (Objective) - 3:00 pm to 6:00 pm |
| 2 | Part Test - I (ADVANCED) | Sunday, November 18, 2012 | Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm |
| 3 | Part Test - II (MAIN) | Saturday, December 8, 2012 | PCM (Objective) - 3:00 pm to 6:00 pm |
| 4 | Part Test - II (ADVANCED) | Sunday, December 9, 2012 | Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm |
| 5 | Part Test - III (MAIN) | Saturday, December 22, 2012 | PCM (Objective) - 3:00 pm to 6:00 pm |
| 6 | Part Test - III (ADVANCED) | Sunday, December 23, 2012 | Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm |
| 7 (a), (b) | Full Test - I & II (MAIN)* | Test Papers to be downloaded on 23rd December, 2012 from www.fiitjee.com/aitsjee2013.htm for practicing at home for Full Tests' preparation | |
| 7 (c), (d) | Full Test - I & II (ADVANCED)* | | |
| 8 | Full Test - III (MAIN) | Saturday, January 5, 2013 | PCM (Objective) - 3:00 pm to 6:00 pm |
| 9 | Full Test - III (ADVANCED) | Sunday, January 6, 2013 | Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm |
| 10 (a) | Full Test - IV (MAIN)* | Test Papers to be downloaded on 6th January, 2013 from www.fiitjee.com/aitsjee2013.htm for practicing at home for Full Tests' preparation | |
| 10 (b) | Full Test - IV (ADVANCED)* | | |
| 11 | Full Test - V (MAIN) | Saturday, January 19, 2013 | PCM (Objective) - 3:00 pm to 6:00 pm |
| 12 | Full Test - V (ADVANCED) | Sunday, January 20, 2013 | Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm |
| 13 (a), (b), (c) | Concept Recapitulation Test ** Papers - Set I, II & III (MAIN) | Test Papers to be downloaded on 20th January, 2013 from www.fiitjee.com/aitsjee2013.htm for additional practicing at home. | |
| 13 (d), (e), (f) | Concept Recapitulation Test ** Papers - Set I, II & III (ADVANCED) | | |
| 14 | OPEN TEST (MAIN) | Saturday, February 9, 2013 | PCM (Objective) - 3:00 pm to 6:00 pm |
| 15 | OPEN TEST (ADVANCED) | Sunday, February 10, 2013 | Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm |
| 16 (a), (b), (c) | Concept Recapitulation Test ** Papers - Set IV, V & VI (MAIN) | Test Papers to be downloaded on 10th February, 2013 from www.fiitjee.com/aitsjee2013.htm for additional practicing at home | |
| 16 (d), (e), (f) | Concept Recapitulation Test ** Papers - Set IV, V & VI (ADVANCED) | | |
| 17 | Full Test - VII (MAIN) | Sunday, March 24, 2013 | PCM (Objective) - 9:30 am to 12:30 pm |
| 18 | Full Test - VIII (MAIN) | Sunday, March 31, 2013 | PCM (Objective) - 9:30 am to 12:30 pm |
| 19 | Full Test - VII (ADVANCED) | Sunday, May 5, 2013 | Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm |
| 20 | Full Test - VIII (ADVANCED) | Sunday, May 19, 2013 | Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm |
| 21 | Full Test - IX (ADVANCED) | Sunday, May 26, 2013 | Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm |
| ADVANCED (Paper 1 and Paper 2) will each have three separate sections on Physics, Chemistry & Mathematics. Both Papers will be Objective type. | | | |

Note 1: Venue, Dates & Timings of Concept Strengthening & Analysis Program (CSAP) shall be informed to you by the Study Centre opted by you.

Note 2: In case of any change in the above schedule due to unforeseen & unavoidable reasons, the same will be put-up on FIITJEE website: www.fiitjee.com.

SYLLABUS

| PAPER | CHEMISTRY | MATHEMATICS | PHYSICS |
|------------------------|--|---|--|
| Part Test – I | | | |
| MAIN | Atomic Structure, Chemical Kinetics, Chemical Equilibrium, Balancing of Redox Reaction, Ionic Equilibrium, Chemical Bonding, s-Block and Hydrogen, Boron and Carbon Family, Periodic Properties | Sets, Relations and Functions, Limits, Continuity and Differentiability, Application of Derivatives, Indefinite Integration, Definite Integrals and their Properties, Area, Differential Equations, Mathematical Reasoning, Volume & Surface | Units and Measurement, Kinematics (Motion in One Dimension), Vectors, Kinematics (Motion in Two and Three Dimensions), Relative motion, Laws of Motion, Work, Energy and Power, Center of mass, Conservation of momentum Collisions, Circular motion, Rotational Motion |
| ADVANCED | Atomic Structure, Chemical Kinetics, Chemical Equilibrium, Balancing of Redox Reaction, Ionic Equilibrium, Chemical Bonding, s-Block and Hydrogen, Boron and Carbon Family | Functions, Limits, Continuity and Differentiability, Application of Derivatives, Indefinite Integration, Definite Integrals and their properties, Area, Differential Equations | Kinematics, Laws of Motion, Work, Energy and Power, Conservation of Momentum, Rotation |
| Part Test - II | | | |
| MAIN | Organic Chemistry (Including GOC), Practical Organic Chemistry, Biomolecules, Polymers | Trigonometric Ratios and Identities, Trigonometric Equations, Heights and distance, Solution of triangle, Straight Lines, Circles, Parabola, Ellipse, Hyperbola, Mathematical Induction | Kinetic theory of gases, Heat and Thermodynamics (second law+reversible and irreversible process, carnot engine+thermal expansion + calorimetry), Transfer of Heat + convection, Electrostatics, Current Electricity (color code of resistors), Thermal Effects of Current, Magnetic Effects of Current, Pure magnetism (current loop as magnetic dipole and its moment), bar magnet, magnetic field lines, earth magnetism, para-dia-ferro), Magnets, susceptibility and permeability, hysteresis, electromagnets and permanent magnets, Magnetostatics, Electromagnetics Induction and Alternating Currents (ac generator and transformer, wattless current, quality factor) |
| ADVANCED | Organic Chemistry (including GOC), Practical Organic Chemistry, Biomolecules, Polymers | Trigonometric ratios and identities, Trigonometric equations, Solution of triangles, Straight Lines, Circles, Parabola, Ellipse, Hyperbola | Heat and Thermodynamics, Electrostatics, Current Electricity, Magnetics, Electromagnetic Induction, A.C. Circuit |
| Part Test - III | | | |
| MAIN | Group V to VIII, Transition Elements & Coordination Compounds, f-Block elements, Ores and Metallurgy, Liquid Solution, Surface Chemistry, Electrochemistry, Thermodynamics & Thermochemistry, Stoichiometry, Gaseous State, Qualitative Analysis, Solid State, Environmental Chemistry, Chemistry in Everyday Life | Progression and Series, Quadratic Equations and Expressions, Complex Numbers, Binomial Theorem, Matrices, Determinants, Permutation and Combination, Statistics (Measures of Dispersion) and Probability, Probability Distribution, Binomial Distribution, Vector, Three Dimensional Geometry | Oscillations (forced and damped oscillations), Wave & Sound, Ray Optics (microscope and astronomical telescope), Wave Optics (diffraction (single slit), resolving power of microscope and astronomical telescope, polarisation, brewsters law, uses of polaroids and polarised light), Electromagnetic Waves, Dual Nature of Matter & Radiation, Atoms, Molecules and Nuclei, Electronic Devices & Communication Systems, Experimental Skills in Physics, Gravitation, Properties of Solids and Fluids + streamline flow, turbulent flow, reynolds number |
| ADVANCED | Group V to VIII, Transition Elements & Coordination Compounds, Ores and Metallurgy, Liquid Solution, Electrochemistry, Thermodynamics & Thermochemistry, Stoichiometry, Gaseous State, Qualitative Analysis, Solid State | Progression and Series, Quadratic Equations and Expressions, Complex Numbers, Binomial Theorem, Matrices Determinants, Permutation and Combination, Probability, Vector, Three Dimensional Geometry | Gravitation, Fluids, Simple Harmonic Motion, Waves & Sound, Optics, Modern Physics, Error Analysis |

Note: Full Tests syllabi will be same as that of Part Test - I, II & III combined.

* It is suggested that you take all the tests at home during the JEE timings, thereby making sure your biological clocks are tuned for peak performance on the JEE day. If you get habituated to taking the test at night, your body and mind get tuned for the best performance at night but that may not be of much avail on the JEE day.

To simulate exam like conditions, following guidelines are suggested:

- ❖ Choose a chair, table and a place to sit undisturbed for test duration.
- ❖ Use only Black Pen.
- ❖ Approach examination table 15 minutes before start time of Test.
- ❖ Strictly stick to the starting and ending times of your Test, decided before hand. You will be given no extra time whatsoever in JEE.

Concept Recapitulation Test Papers are Practice Test Papers through which particular concepts are to be revised. These papers are very helpful to revise the topic of Physics, Chemistry & Mathematics without actually revising the entire theory. In these papers, representative problems are there from various concepts of JEE syllabus, through which students can recapitulate entire topics before JEE within short span of time.

All India Test Series - Test Centres

Delhi (South), Delhi (North West), Delhi (East), Delhi (Dwarka), Delhi NCR (Faridabad), Delhi NCR (Gurgaon), Delhi NCR (Noida), Delhi NCR (Ghaziabad), Agra, Ahmedabad, Ajmer, Allahabad, Amritsar, Aurangabad, Bangalore, Bareilly, Bhagalpur, Bathinda, Bhilai, Bhopal, Bhubaneswar, Bokaro, Chandigarh, Chennai, Dehradun, Dhanbad, Durgapur, Gorakhpur, Guwahati, Gwalior, Hisar, Hyderabad, Indore, Jabalpur, Jaipur, Jammu, Jamshedpur, Jhansi, Jodhpur, Kanpur, Karnal, Kharagpur, Kochi, Kolkata, Kota, Lucknow, Ludhiana, Meerut, Mumbai (Sion), Mumbai (Chembur), Mumbai (Kandivali), Mumbai (Thane), Muzaffarpur, Nagpur, Patiala, Patna, Pune, Ranchi, Rohtak, Rourkela, Shaktinagar NTPC, Siliguri, Thrissur, Trivandrum, Udaipur, Ujjain, Vadodara, Varanasi, Vijaywada & Vishakapatnam.