

# FIITJEE ONE YEAR ALL INDIA TEST SERIES

(and Concept Strengthening Classroom Program)

for JEE (MAIN) & JEE (ADVANCED), 2017

## SCHEDULE

S.NO.	AITS TEST	TEST DATE	TEST TIMINGS
1	PART TEST - I (MAIN)	Saturday, 12th November 2016	PCM (Objective) - 3:00 pm to 6:00 pm
2	PART TEST - I (ADVANCED)	Sunday, 13th November 2016	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
3	Test Analysis & Concept Strengthening Classroom Sessions on <b>Sunday, 20th November 2016</b> at FIITJEE Study Centre		
4	PART TEST - II (MAIN)	Saturday, 3rd December 2016	PCM (Objective) - 3:00 pm to 6:00 pm
5	PART TEST - II (ADVANCED)	Sunday, 4th December 2016	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
6	Test Analysis & Concept Strengthening Classroom Sessions on <b>Sunday, 11th December 2016</b> at FIITJEE Study Centre		
7	PART TEST - III (MAIN)	Saturday, 17th December 2016	PCM (Objective) - 3:00 pm to 6:00 pm
8	PART TEST - III (ADVANCED)	Sunday, 18th December 2016	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
9	Test Analysis & Concept Strengthening Classroom Sessions on <b>Sunday, 8th January 2017</b> at FIITJEE Study Centre		
10, 11	FULL TEST - I & II (MAIN)*	Test Papers to be Downloaded on 20th December 2016 from <a href="http://www.fiiitjee.com/aitsjee.2017.htm">www.fiiitjee.com/aitsjee.2017.htm</a> for practicing at home for Full Tests' preparation	
12, 13	FULL TEST - I & II (ADVANCED)*		
14	FULL TEST - III (MAIN)	Saturday, 14th January 2017	PCM (Objective) - 3:00 pm to 6:00 pm
15	FULL TEST - III (ADVANCED)	Sunday, 15th January 2017	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
16	Test Analysis & Concept Strengthening Classroom Sessions on <b>Sunday, 22nd January 2017</b> at FIITJEE Study Centre		
17, 18	FULL TEST - IV & V (MAIN)*	Test Papers to be Downloaded on 17th January 2017 from <a href="http://www.fiiitjee.com/aitsjee.2017.htm">www.fiiitjee.com/aitsjee.2017.htm</a> for practicing at home for Full Tests' preparation	
19, 20	FULL TEST - IV & V (ADVANCED)*		
21	OPEN TEST (MAIN)	Sunday, 5th February 2017	PCM (Objective) - 9:30 am to 12:30 pm
22	OPEN TEST (ADVANCED)	Sunday, 12th February 2017	PAPER 1 - 9:00 am to 12:00 noon PAPER 2 - 2:00 pm to 5:00 pm
23	Test Analysis & Concept Strengthening Classroom Sessions on <b>Sunday, 19th February 2017</b> at FIITJEE Study Centre		
24, 25, 26, 27	CONCEPT RECAPITULATION TEST *# PAPERS - SET I, II, III & IV (MAIN)	Test Papers to be Downloaded on 14th February 2017 from <a href="http://www.fiiitjee.com/aitsjee.2017.htm">www.fiiitjee.com/aitsjee.2017.htm</a> for practicing at home for Full Tests' preparation	
28, 29, 30, 31	CONCEPT RECAPITULATION TEST *# PAPERS - SET I, II, III & IV (ADVANCED)		
32	FULL TEST - VII (MAIN)	Sunday, 19th March 2017	PCM (Objective) - 9:30 am to 12:30 pm
33	FULL TEST - VIII (MAIN)	Sunday, 26th March 2017	
34	FULL TEST - VII (ADVANCED)	Sunday, 16th April 2017	Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm
35	FULL TEST - VIII (ADVANCED)	Sunday, 23rd April 2017	
36	FULL TEST - IX (ADVANCED)	Sunday, 30th April 2017	
37	FULL TEST - X (ADVANCED)	Sunday, 7th May 2017	
38	FULL TEST - XI (ADVANCED)	Sunday, 14th May 2017	

ADVANCED (Paper 1 and Paper 2) will each have three separate sections on Physics, Chemistry & Mathematics. Both papers will be objective type.

Note: In case of any change in the above schedule due to unforeseen & unavoidable reasons, the same will be put-up on FIITJEE website: [www.fiiitjee.com](http://www.fiiitjee.com).

# SYLLABI

PAPER	CHEMISTRY	MATHEMATICS	PHYSICS
<b>Part Test – I</b>			
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
<b>Part Test - II</b>			
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
<b>Part Test - III</b>			
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, Bilai, Bhopal, Bhubaneswar, Bokaro, Chandigarh, Chennai, Dehradun, Dhanbad, Durgapur, Gaya, Gorakhpur, Guwahati, Gwalior, Hisar, Hyderabad, Indore, Jabalpur, Jaipur, Jammu, Jamshedpur, Jhansi, Jodhpur, Kanpur, Karnal, Kharagpur, Kochi, Kolkata, Kota, Lucknow, Ludhiana, Meerut, Mumbai (Andheri), Mumbai (Chembur), Mumbai (Kandivali), Mumbai (Thane), Mumbai (Navi Mumbai), Muzaffarpur, Mysore, Nagpur, Patiala, Patna, Pune, Ranchi, Rohtak, Roorkee, Rourkela, Shaktinagar NTPC, Siliguri, Thrissur, Udaipur, Vadodara, Varanasi, Vijayawada & Visakhapatnam.