

## Computer Based



### For Students of Class XI

### Two Years Integrated Program for JEE (Main & Advanced) 2021

Preparing well for JEE Main & JEE Advanced is one thing and transforming the knowledge & skills into success on the JEE day is another. Many Students are not able to adopt the right approach and proper examination temperament, as they do not have the right feedback on their preparation. If you fail in JEE Main & JEE Advanced it is a permanent loss, which is irreparable, and mistakes committed are incorrigible. Test Series will teach you how not to fail. It is an opportunity for you to ensure that you convert your skills into success on the JEE day. Test analysis help the Students to realize:

- Correlation between percentage of marks attempted & marks obtained.
- Silly mistakes, which could have been avoided.
- Psychological temperament required to perform optimally in the exam.

Level of difficulty in the tests is changed strategically to prepare Students for all types of papers - very difficult to relatively easy ones. It has been observed that JEE papers have been coming up with a different kind of content in one or the other subject in terms of level of difficulty & style of the paper. FIITJEE test series (with test analysis) will ensure you do not suffer any setbacks due to these fluctuating trends. The quality of our test papers is evident from the fact that many questions of IIT-JEE from 1995 to 2018 are either identical or similar to questions, which were part of FIITJEE All India Test Series.

#### with additional benefits

- ❖ Concept Strengthening Classroom Program\*
- ❖ myPAT - On-line Test Series
- ❖ On-line doubt removal support
- ❖ Marks also on web for each test with analysis chart

\* Available at all FIITJEE / selected AITS Centres. For details contact nearest FIITJEE centre.

## IMPORTANCE OF COMPUTER BASED ALL INDIA TEST SERIES

- Like JEE Main & JEE Advanced, you get several chances to know about your performance & make up for your shortcomings.
- Consists of Concept Strengthening Classroom Program (CSCP) of about 78 hrs after the test, to eliminate conceptual doubts and plugging the loopholes related to the papers.
- Has new & original problems of JEE Main & JEE Advanced level, which is the best way to prepare for JEE Main & JEE Advanced.
- Practically tests all the fundamentals.
- Prepares you for all types of patterns & levels of difficulty, so you will be ready to face JEE Main & JEE Advanced in all eventualities.
- Gives you other possible solutions to a problem, so you learn to analyze problems from different possibilities.
- Gives you sufficient time to consolidate on your JEE Main & JEE Advanced preparation as it starts with Part Tests and gradually covers the entire JEE syllabus in Full Tests.
- Gives you test analysis sessions to analyze your mistakes & improves your strike rate / scoring in the same paper, so you acquire a sound examination temperament to score upto your maximum potential.
- Gives you several chances to appear in simulated JEE like environment to help you develop better Time Management skills.
- Gives you realistic & authentic All India level ranking, so that achieving your goal gets easy.

### FIITJEE Students from Correspondence Programs excelled in JEE Advanced, 2018 !

All India Test Series				Rankers Study Material							
S.No.	Name	AIR	S.No.	Name	AIR	S.No.	Name	AIR	S.No.	Name	AIR
1.	Lay Jain	9	5.	Ritika Hooda	112	1.	Meenal Parakh	6	5.	Khushi Ketan Kapadia	106
2.	Bhaskar Gupta	30	6.	Samad Koita	131	2.	Karan Agarwalla	21	6.	Lavish Gupta	107
3.	Pulkit Agrawal	58	7.	Shashank Agarwal	155	3.	Siddhant Choudhary	61	7.	Parth Sastry	145
4.	Shrey Bansal	72	8.	Parth Somani	178	4.	Shreyans J Nagori	93	8.	Varun Goyal	146
									9.	Sumanyu Ghoshal	160
									10.	Ritika	163
									11.	Datar Arnhav Abhijit	200

  

JEE Advanced, 2018 (AIR)	Top 10	Top 50	Top 100	Top 200	Top 500	Top 10000
Number of FIITJEE Students in Common Rank List	2	5	9	20	43	331

## CONCEPT STRENGTHENING CLASSROOM PROGRAM (CSCP)

Test series tests will be followed by a Concept Strengthening & Test Analysis cum doubt removal program in each subject of Physics, Chemistry and Mathematics conducted by expert FIITJEE faculty members. The key points of this program will be as follows:

- ❖ Subject discussion of each paper with emphasis on several ways of attempting a question, wherever possible.
- ❖ How to improve strike rate & how to overcome the mistakes that a Student often makes during the exam will also be discussed.
- ❖ Strategy to attempt the paper of any different difficulty level or pattern.
- ❖ Eliminating conceptual doubts, plugging the loopholes related to the papers.
- ❖ Strategies for time management during preparation and on the day of the exam.



myPAT is an Online Platform for Learning through Assessment, Analysis and Identification of Improvement Areas. Powered by Edfora, myPAT enables you to track your progress, giving an in depth analysis and allows you to assess yourself both in Test Mode and Learning Mode. Besides your absolute performance analysis at varying level like subject chapter and concept, you would be able to check your performance in various types of questions as well as level of difficulty of questions.



### 1. LEARN

**Learn** important concepts from experts & solved previous year test papers according to your personalised schedule



### 2. PRACTICE

**Practice** and master every concept as you graduate from Level 01 to Level 10



### 3. TEST

**Test** your preparation by attempting concept, part and full tests of your target exams

### 4. REVISE

**Revise** weaker concepts and chapters with instant test results



### 5. COMMUNITY

**Ask** questions and connect with other students to gain and share knowledge



### 6. PROFILE

**Follow** your favorite people and challenge them on concept, part & full tests to compete together

### Test Centres\* for Computer Based All India Test Series (only one centre can be opted)

Delhi (South)	Bathinda	Gwalior	Kota	Raipur
Delhi (North West)	Bhagalpur	Haldwani	Lucknow	Rohtak
Delhi (Dwarka)	Bhilai	Hisar	Ludhiana	Roorkee
Delhi (East)	Bhopal	Hyderabad	Meerut	Rourkela
Delhi NCR (Faridabad)	Bhubaneswar	Indore	Mumbai (Andheri)	Shaktinagar (NTPC)
Delhi NCR (Gurgaon)	Bokaro	Jabalpur	Mumbai (Chembur)	Siliguri
Delhi NCR (Noida)	Chandigarh	Jaipur	Mumbai (Kandivali)	Sonepat
Delhi NCR (Ghaziabad)	Chennai	Jammu	Mumbai (Navi Mumbai)	Thrissur
Agartala	Coimbatore	Jamshedpur	Mumbai (Thane)	Udaipur
Agra	Darbhanga	Jhansi	Muzaffarpur	Vadodara
Ahmedabad	Dehradun	Jodhpur	Mysore	Varanasi
Allahabad	Dhanbad	Kanpur	Nagpur	Vijayawada
Amritsar	Durgapur	Karnal	Nasik	Visakhapatnam
Aurangabad	Gaya	Kharagpur	Patna	
Bangalore	Gorakhpur	Kochi	Pune	
Bareilly	Guwahati	Kolkata	Ranchi	

\* These are the test centres for JEE (Main & Advanced) Test Series only. Concept Strengthening Classroom Program will be held at FIITJEE Centres only. In addition to FIITJEE Study Centres, Ahmedabad, Kota & Rourkela will also be the centres of CSCP.

Note: FIITJEE reserves the right to change / cancel any Test / CSCP Centre without any prior notice.

## ELIGIBILITY CRITERION

Candidates must have secured 75% marks in (Science + Maths) / PCM in class X from CBSE, ICSE, Andhra Pradesh, Anglo Indian, Haryana, Maharashtra, Kerala, Telangana, Tamilnadu & West Bengal Boards. 70% marks in (Science + Maths) / PCM in class X from other Boards. Candidate must have appeared in X Board in the year 2019.

**Direct Admission** to Students having qualified any stage of NTSE, KVPY, Olympiad, Jr. Science Olympiad or JSTSE / SSTSE / MTSE / similar Talent Search Exam conducted by State Govt.

**Note:** In case of only Grade System in Boards, equivalent Grade corresponding to eligibility criteria will be considered.

Those Students who are not eligible on the basis of marks, but are qualified in any of our Admission Tests / Scholarship Tests are eligible to apply.

## COURSE FEE OF COMPUTER BASED ALL INDIA INTEGRATED TEST SERIES

For Students of Class XI : Program for JEE (Advanced), 2021			
Program Code	Computer Based All India Test Series & Concept Strengthening Classroom Program Fee	myPAT Online Test Series* Fee	Total Fee Payable Amount
1192	Rs. 17523 (Rs.14850 + 18% GST)	Rs. 4719 (Rs. 3999 + 18% GST)	<b>Rs. 22242</b>

\* **myPAT Package:** Total 17 Tests (10 Full Tests + 7 Part Tests) for JEE Main & Total 17 Tests (10 Full Tests + 7 Part Tests) for JEE Advanced. For details of myPAT please visit [www.mypat.in](http://www.mypat.in)

## HOW TO ENROL

Apply on prescribed Enrolment Form (can be collected from nearest FIITJEE centre or downloaded from [www.fiiitjee-distancelearning.com](http://www.fiiitjee-distancelearning.com))

Send your completely filled Enrolment Form through post / courier to **National Admissions Office (NCRP), FIITJEE House, 29-A, Kalu Sarai, Sarvapriya Vihar, New Delhi-110016** along with :

- A. Four passport size colour photographs,
- B. Photocopy of Class X Board mark sheet
- C. Two Demand Drafts / Pay Orders payable at Delhi in favour of
  - (i) "FIITJEE Ltd." for **Computer Based All India Test Series & Concept Strengthening Classroom Program Fee**
  - (ii) "Edfora Infotech Pvt. Ltd." for **myPAT Online Test Series Fee**

You can also submit your completed Enrolment Form in person at the nearest FIITJEE Centre.

Please visit

[www.fiiitjee-distancelearning.com](http://www.fiiitjee-distancelearning.com)

**SCHOLARSHIP CRITERION - COMPUTER BASED ALL INDIA INTEGRATED TEST SERIES**

Exam Name	Stages Level	Stage I Qualified	Scholarship to be given on enrolling in All India Test Series	Stage II Qualified	Scholarship to be given on enrolling in All India Test Series	Stage III Qualified	Scholarship to be given on enrolling in All India Test Series	Stage V Performance	Scholarship to be given on enrolling in All India Test Series
<b>NTSE</b>	✓ (Qualified State Level Written Exam)	25% Scholarship on Course Fee. For State Topper - 35% Scholarship on Course Fee	✓ (Qualified National Level Written Exam) - Final Scholar	65% Scholarship on Course Fee	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>JSTSE (Delhi) / SSTSE (Rajasthan) / MTSE (Maharashtra) or similar kind of Talent Search Exam</b>	✓ (Qualified Written Exam)	25% Scholarship on Course Fee	✓ (Final Interview) - Wherever Applicable	Rank 1 : 50% Scholarship on Course Fee Rank 2 to 20 : 35% Scholarship on Course Fee	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>KVPY</b>	✓ (Qualified Written Test & Called for Interview)	35% Scholarship on Course Fee	✓ (Selected after Interview)	50% Scholarship on Course Fee	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
<b>National Olympiads</b>	✓ (Qualified National Standard Examination in Physics / Chemistry / Astronomy or Regional Mathematical Olympiad for Stage-II Level)	50% Scholarship on Course Fee	✓ (Qualified Indian National Olympiads in Mathematics / Physics / Chemistry / Astronomy for Stage-III Level)	65% Scholarship on Course Fee	✓ (Selection in Stage-III i.e. Orientation Cum Selection Camp for <b>Stage-IV Level</b> i.e. Pre Departure Training Camp for International Physics / Chemistry / Mathematical / Astronomy & Astrophysics Olympiad)	Amount to be paid by the Student as Enrollment Fee = Rs. 1000 (inclusive of GST), Student will also get GMP & RTPF free of cost	✓ (Winning Medal for the Country in International Physics / Chemistry / Mathematical / Astronomy & Astrophysics Olympiad)	For Gold Medalist, Enrollment Fee = Rs. 200 (inclusive of GST) For Silver Medalist, Enrollment Fee = Rs. 400 (inclusive of GST) For Bronze Medalist, Enrollment Fee = Rs. 800 (inclusive of GST), Student will also get GMP & RTPF free of cost	
<b>Junior Science Olympiad</b>	✓ (Qualified National Standard Examination in Junior Science for Stage- II Level)	50% Scholarship on Course Fee	✓ (Qualified Indian National Junior Science Olympiad for Stage-III Level)	65% Scholarship on Course Fee	✓ (Selection in Stage-III i.e. Orientation Cum Selection Camp in Jr. Science for <b>Stage-IV Level</b> i.e. Pre Departure Training Camp for International Jr. Science Olympiad)	Amount to be paid by the Student as Enrollment Fee = Rs. 1300 (inclusive of GST), Student will also get GMP & RTPF free of cost	✓ (Winning Medal for the Country in International Jr. Science Olympiad)	Student will also get GMP & RTPF free of cost	

**Note 1 :** No Scholarship will be given on myPAT Fee. Scholarships will be applicable only on basic Course Fee (Tests + CSCP Fee).

**Note 2 :** Scholarships on Scholastic achievement are applicable for those Students qualifying in the general category only.

**Note 3 :** All the above scholarships are valid only on submission of Marksheet / Certificates / letters of selection from the concerned authorities, verified & attested only by the Principal of the school last attended / presently studying / Gazetted Officer.

**Note 4 :** If a Student is eligible for two or more than two scholarships, he can avail only one scholarship whichever is higher or highest.

## TENTATIVE SCHEDULE OF COMPUTER BASED ALL INDIA INTEGRATED TEST SERIES (in Class XI) for JEE Main & Advanced, 2021 (with Concept Strengthening Classroom Program)

S. No.	AITTS TEST	TEST DATE	TEST TIMING
1	PART TEST - I (Main)	10th November 2019	9:30 am to 12:30 pm
2	PART TEST - I (Advanced)	17th November 2019	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 22nd November 2019 at FIITJEE Study Centre		
4	PART TEST - II (Main)	8th December 2019	9:30 am to 12:30 pm
5	PART TEST - II (Advanced)	15th December 2019	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 20th December 2019 at FIITJEE Study Centre		
7	HALF COURSE TEST - I (Main)	29th December 2019	9:30 am to 12:30 pm
8	HALF COURSE TEST - I (Advanced)	19th January 2020	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 31st January 2020 at FIITJEE Study Centre		
10	OPEN TEST (Advanced)	2nd February 2020	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
11	Test Analysis & Concept Strengthening Classroom Sessions on 7th February 2020 at FIITJEE Study Centre		
12	OPEN TEST (Main)	9th February 2020	9:30 am to 12:30 pm
13	HALF COURSE TEST - III (Main)	22nd March 2020	9:30 am to 12:30 pm
14	HALF COURSE TEST - IV (Main)	29th March 2020	9:30 am to 12:30 pm
15	HALF COURSE TEST - III (Advanced)	26th April 2020	Paper 1 - 9:00 am to 12:00 pm Paper 2 - 2:00 pm to 5:00 pm
16	Test Analysis & Concept Strengthening Classroom Sessions on 1st May 2020 at FIITJEE Study Centre		
17	HALF COURSE TEST - IV (Advanced)	3rd May 2020	Paper 1 - 9:00 am to 12:00 pm Paper 2 - 2:00 pm to 5:00 pm
18	Test Analysis & Concept Strengthening Classroom Sessions on 8th May 2020 at FIITJEE Study Centre		
19	HALF COURSE TEST - V, VI & VII (Main)*	Test Papers to be Downloaded in July, 2020 for practicing at home	
20	HALF COURSE TEST - V, VI & VII (Advanced)*		
21	PART TEST - III & IV (Main)*	Two Part Tests (half class XII Course Test) on class XII Course to be Downloaded in September 2020 for practicing at home	
22	PART TEST - III & IV (Advanced)*		
ADVANCED (Paper 1 and Paper 2) will each have three separate sections on Physics, Chemistry & Mathematics. Both papers will be objective type.			

**Note 1 :** Exam Dates will be confirmed by July 2019. AITS Exam timings are based on JEE Main 2019 Exam timings.

**Note 2 :** In case of any change in the above schedule due to unforeseen & unavoidable reasons, the same will be put-up on [website: www.fiiitjee-distancelearning.com](http://www.fiiitjee-distancelearning.com)

**Note 3 :** Schedule (October 2020-May 2021) of Computer Based All India Test Series for JEE (Advanced), 2021 will be made available in August 2020

\* The Schedule has been made assuming that the JEE Main would be taking place in 1st/2nd week of January 2021 as well as in April 2021 and the JEE Advanced would be held on 16th May 2021. The Schedule is subject to change as per the official announcement of JEE Main 2020/2021 and JEE Advanced 2020/2021.

# **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.

## SYLLABI OF COMPUTER BASED ALL INDIA INTEGRATED TEST SERIES (in Class XI)

PAPER	CHEMISTRY	MATHEMATICS	PHYSICS
<b>Part Test - I</b>			
Main	Atomic Structure, Classification of Elements and Periodicity in Properties, Chemical Bonding & Molecular Structure, States of Matter - Gaseous and Liquids, Solid State, Some Basic Concepts of Chemistry and Redox Reactions, Chemical Equilibrium, Ionic Equilibrium, Chemical Energetics & Thermodynamics.	Straight Line, Circles, Parabola, Ellipse, Hyperbola, Quadratic Equations & Expressions	Units and Measurement, Description of Motion in One Dimensions, Description of Motion in Two and Three Dimensions, Laws of Motion, Work, Energy and Power, Rotational Motion and Moment of Inertia
Advanced	Atomic Structure, Periodic Properties & Chemical Bonding, Gaseous State, Stoichiometry & Balancing of Redox Reaction, Chemical Equilibrium, Ionic Equilibrium, Solid State	Straight Line, Circle, Parabola, Ellipse, Hyperbola, Quadratic Equations and Expressions	Kinematics, Laws of Motion, Work, Energy and Power, Conservation of Momentum, Rotation
<b>Part Test - II</b>			
Main	Concepts of Acids and Bases, General Organic Chemistry, Isomerism, s-Block & Hydrogen, Boron and Carbon Family, Hydrocarbons, Electrophilic Aromatic Substitution, Environmental Chemistry	Trigonometric Ratios & Identities, Trigonometric Equations, Heights & Distances, Progressions, Series & Inequalities, Exponential Series & Logarithmic Series, Binomial Theorem, Complex Numbers, De Moivre's Theorem & Hyperbolic Functions, Mathematical Induction, Permutation & Combination	Gravitation, Solids and Fluids, Oscillations, Wave, Heat and Thermodynamics, Transference of Heat Geometric Optics
Advanced	Concepts of Acids and Bases, General Organic Chemistry, Isomerism, s-Block & Hydrogen, Boron and Carbon Family, Hydrocarbons, Electrophilic Aromatic Substitution	Trigonometric ratios and Identities, Trigonometric equations, Solution of triangles, Binomial Theorem, Complex Numbers, Permutation and Combination, Progression and Series	Gravitation, Fluids, Heat and Thermodynamics, Simple Harmonic Motion, Waves and Sound Geometric Optics

**Note :** Half Course Tests Syllabi will be the same as Part Tests - I & II Tests combined.

## TENTATIVE SCHEDULE OF COMPUTER BASED ALL INDIA INTEGRATED TEST SERIES (in Class XII) for JEE Main & Advanced, 2021 (with Concept Strengthening Classroom Program)

S. No.	AITS TEST	TEST DATE	TEST TIMING
1	PART TEST - I (Main)	18th October 2020	9:30 am to 12:30 pm
2	PART TEST - I (Advanced)	25th October 2020	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 30th October 2020 at FIITJEE Study Centre		
4	PART TEST - II (Main)	8th November 2020	9:30 am to 12:30 pm
5	PART TEST - II (Advanced)	15th November 2020	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 20th November 2020 at FIITJEE Study Centre		
7	PART TEST - III (Main)	6th December 2020	9:30 am to 12:30 pm
8	PART TEST - III (Advanced)	13th December 2020	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 18th December 2020 at FIITJEE Study Centre		
10	FULL TEST - I (Main)*	Test Papers to be Downloaded on 17th December 2020 for practicing at home	
11	FULL TEST - I & II (Advanced)*		
12	FULL TEST - II (Main)	20th December 2020	9:30 am to 12:30 pm
13	FULL TEST - III (Main)	27th December 2020	9:30 am to 12:30 pm
14	FULL TEST - IV & V (Main)*	Test Papers to be Downloaded on 27th December 2020 for practicing at home	
15	FULL TEST - III & IV (Advanced)*		
16	FULL TEST - V (Advanced)	24th January 2021	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
17	Test Analysis & Concept Strengthening Classroom Sessions on 29th January 2021 at FIITJEE Study Centre		
18	OPEN TEST (Advanced)	7th February 2021	Paper 1 - 9:30 am to 12:30 pm Paper 2 - 1:30 pm to 4:30 pm
19	Test Analysis & Concept Strengthening Classroom Sessions on 12th February 2021 at FIITJEE Study Centre		
20	CONCEPT RECAPITULATION TEST *# PAPERS - SET I, II, III & IV (Main)	Test Papers to be Downloaded on 5th February 2021 for practicing at home	
21	OPEN TEST (Main)	14th February 2021	9:30 am to 12:30 pm
22	FULL TEST - VII (Main)	21st March 2021	9:30 am to 12:30 pm
23	FULL TEST - VIII (Main)	28th March 2021	9:30 am to 12:30 pm
24	CONCEPT RECAPITULATION TEST *# PAPERS - SET I, II, III & IV (Advanced)	Test Papers to be Downloaded on 13th April 2021 for practicing at home	
25	FULL TEST - VII & VIII (Advanced)*	Test Papers to be Downloaded on 20th April 2021 for practicing at home	
26	FULL TEST - IX (Advanced)	25th April 2021	Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm
27	Test Analysis & Concept Strengthening Classroom Sessions on 30th April 2021 at FIITJEE Study Centre		
28	FULL TEST - X (Advanced)	2nd May 2021	Paper 1 - 9:00 am to 12:00 noon Paper 2 - 2:00 pm to 5:00 pm
29	Test Analysis & Concept Strengthening Classroom Sessions on 7th May 2021 at FIITJEE Study Centre		
30	FULL TEST - XI (Advanced)	9th May 2021	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:** Exam Dates will be confirmed by July 2020.

**Note 2:** In case of any change in the above schedule due to unforeseen & unavoidable reasons, the same will be put-up on [website: www.fiitjee-distancelearning.com](http://www.fiitjee-distancelearning.com)

\* The Schedule has been made assuming that the JEE Main would be taking place in 1st /2nd week of January 2021 as well as in April 2021 and the JEE Advanced would be held on 16th May 2021. The Schedule is subject to change as per the official announcement of JEE Main 2020/2021 and JEE Advanced 2020/2021.

# **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.



## SYLLABI OF COMPUTER BASED ALL INDIA INTEGRATED TEST SERIES (in Class XII)

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, Magnetism, 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, Brewster's 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 the same as Part Tests - I, II & III Tests combined.