

JEE (ADVANCED) 2024

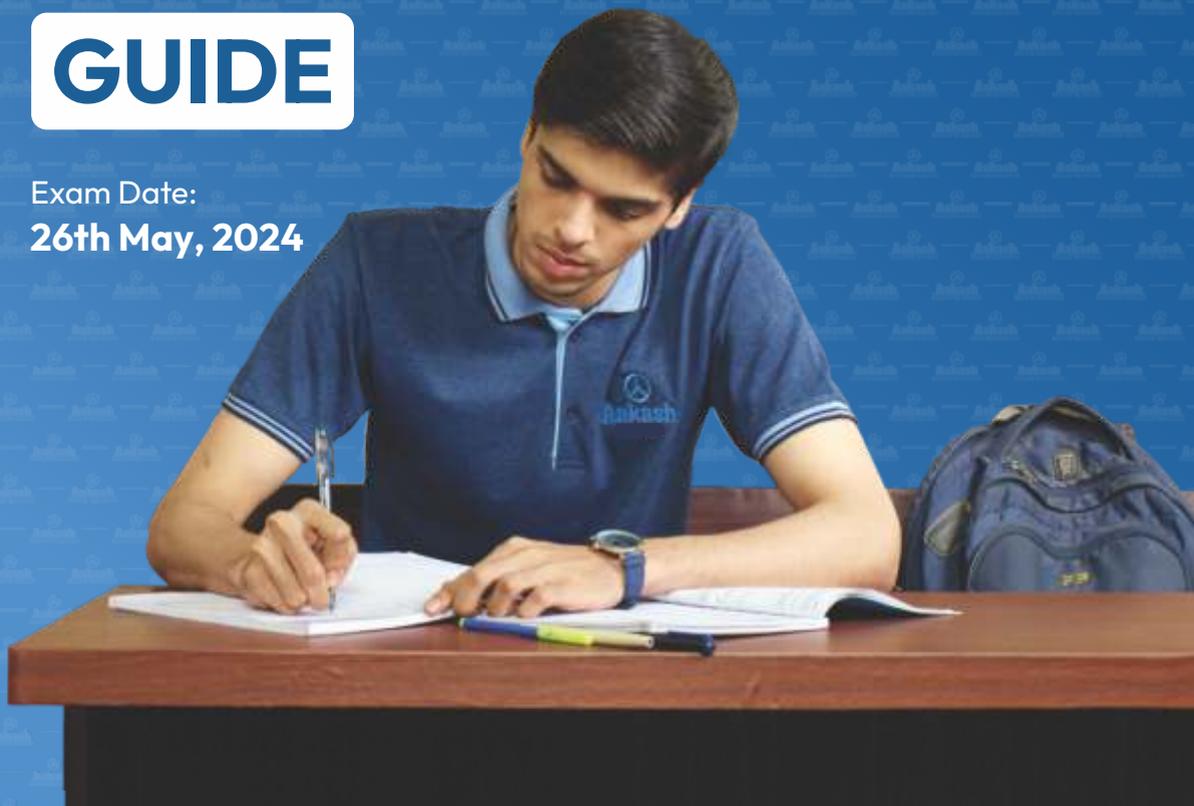
GUIDE

Exam Date:
26th May, 2024



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**Aakashians Shine as
Champions in JEE (Advanced)**



Aditya Neeraje
2 Year Classroom
27 AIR
JEE (Adv.)
2023



Tanishka Kabra
4 Year Classroom
ALL INDIA
RANK
1
AIR-16 cl.
JEE (Adv.)
2022



Anmol Arichwal
4 Year Classroom
58 AIR
JEE (Adv.)
2021



Chirag Falor
4 Year Classroom
1 AIR
JEE (Adv.)
2020



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About JEE (Advanced) 2024

JEE (Advanced) is an academic examination held annually in India. It is organized by one of the seven zonal IITs under the guidance of the Joint Admission Board (JAB) for the qualifying candidates of the JEE (Main).

The JEE (Advanced) examination is conducted for admission to the Bachelors, Integrated Masters and Dual Degree programs at all the IITs.

A candidate can attempt JEE (Advanced) maximum of two times in two consecutive years.

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ALL INDIA RANK 1
AIR-16 cat. JEE (Adv.)
2022



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2020



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Must know

Facts about JEE (Advanced)

- Candidates must score 75% or above for Gen, EWS & OBC and 65% for SC, ST categories in the qualifying examination (12th) OR secured the position under Top 20 percentile (category-wise) in their respective boards to get eligible for JEE (Advanced).
- Indian nationals who wish to appear for JEE (Advanced) 2024 are required to write and qualify the JEE (Main) 2024 paper for admission to B.E. / B.Tech programs at IITs.
- Foreign national candidates who have studied or are studying in India/abroad at 10+2 level or equivalent and wish to appear for JEE (Advanced) 2024 are NOT required to write the JEE (Main) 2024.
- The JEE (Advanced) examination consists of two papers (Paper 1 and Paper 2) of three hours duration each. Appearing in both the papers is compulsory.
- This examination will be conducted only in the Computer Based Test (CBT) mode.

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1 AIR
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2020

Previous Years' JEE (Advanced) AIR Trend (AIR vs %age)

| AIR | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | Avg% |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1 | 85.48 | 91.67 | 96.01 | 92.22 | 92.78 | 93.06 | 86.02 | 92.62 | 93.61 | 93.01 | 88.89 | 96.67 | 87.22 | 94.72 | 91.48 |
| 10 | 81.39 | 85.42 | 88.48 | 85.83 | 86.94 | 83.92 | 78.49 | 86.88 | 86.11 | 82.8 | 81.06 | 89.72 | 78.61 | 89.17 | 84.28 |
| 100 | 70.76 | 79.79 | 78.68 | 76.39 | 77.5 | 69.84 | 68.61 | 83.33 | 74.72 | 72.85 | 71.72 | 79.17 | 65.83 | 79.17 | 74.55 |
| 500 | 62.17 | 72.08 | 69.36 | 66.67 | 68.61 | 60.32 | 54.57 | 77.32 | 64.44 | 61.02 | 59.34 | 65.83 | 53.33 | 66.94 | 64.24 |
| 1000 | 57.87 | 68.13 | 64.46 | 61.67 | 63.33 | 56.75 | 49.46 | 72.95 | 58.89 | 55.65 | 53.28 | 58.89 | 47.22 | 60.83 | 59.12 |
| 2000 | 52.97 | 62.50 | 58.33 | 55.56 | 57.22 | 49.21 | 43.55 | 67.48 | 53.06 | 50 | 46.46 | 51.67 | 40.56 | 53.06 | 52.97 |
| 3000 | 49.69 | 59.17 | 54.41 | 51.94 | 53.61 | 45.44 | 42.74 | 63.38 | 49.17 | 46.77 | 42.42 | 46.67 | 36.67 | 48.33 | 49.39 |
| 4000 | 47.03 | 56.67 | 51.72 | 49.17 | 51.11 | 42.66 | 37.9 | 60.38 | 46.39 | 44.09 | 39.39 | 43.06 | 33.89 | 45 | 46.42 |
| 5000 | 44.99 | 54.38 | 49.51 | 47.22 | 48.89 | 40.48 | 36.02 | 57.65 | 43.89 | 41.94 | 37.12 | 40.28 | 31.94 | 42.5 | 44.18 |
| 6000 | 43.35 | 52.71 | 47.55 | 45.56 | 47.22 | 38.69 | 34.41 | 55.46 | 41.94 | 40.32 | 35.1 | 38.06 | 30.28 | 40.56 | 42.36 |
| 7000 | 41.92 | 51.04 | 45.83 | 43.89 | 45.56 | 37.1 | 33.33 | 53.55 | 40.28 | 38.71 | 33.59 | 35.83 | 28.89 | 38.89 | 40.73 |
| 8000 | 40.49 | 49.79 | 43.38 | 42.5 | 44.44 | 35.91 | 31.99 | 51.63 | 38.61 | 37.63 | 32.32 | 34.44 | 27.78 | 37.22 | 39.3 |
| 9000 | 39.47 | 48.54 | 43.14 | 41.11 | 43.06 | 34.52 | 30.91 | 50.27 | 37.22 | 36.29 | 30.81 | 32.78 | 26.67 | 35.83 | 38.06 |
| 10000 | 38.85 | 47.71 | 41.91 | 40 | 41.94 | 33.33 | 29.84 | 48.9 | 36.11 | 35.22 | 29.8 | 31.39 | 25.56 | 34.72 | 36.97 |
| | 38.85 | 47.71 | 34.55 | 33.88 | 35 | 23.81 | 20.16 | 22.5 | 25 | 25 | 17.42 | 17.5 | 15.28 | 23.89 | 27.44 |

Chapter Name (Physics)

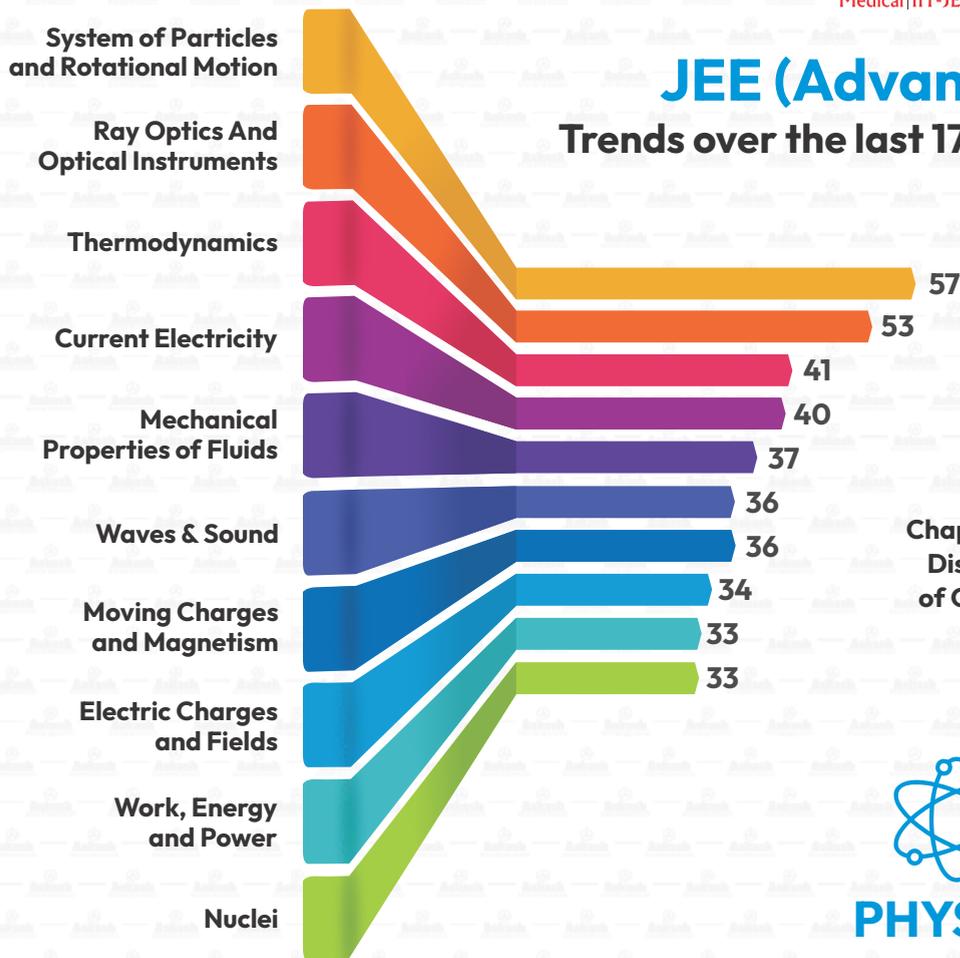


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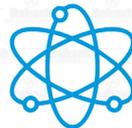
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JEE (Advanced)

Trends over the last 17 Years



Chapter-wise
Distribution
of Questions



PHYSICS

Chapter Name (Chemistry)

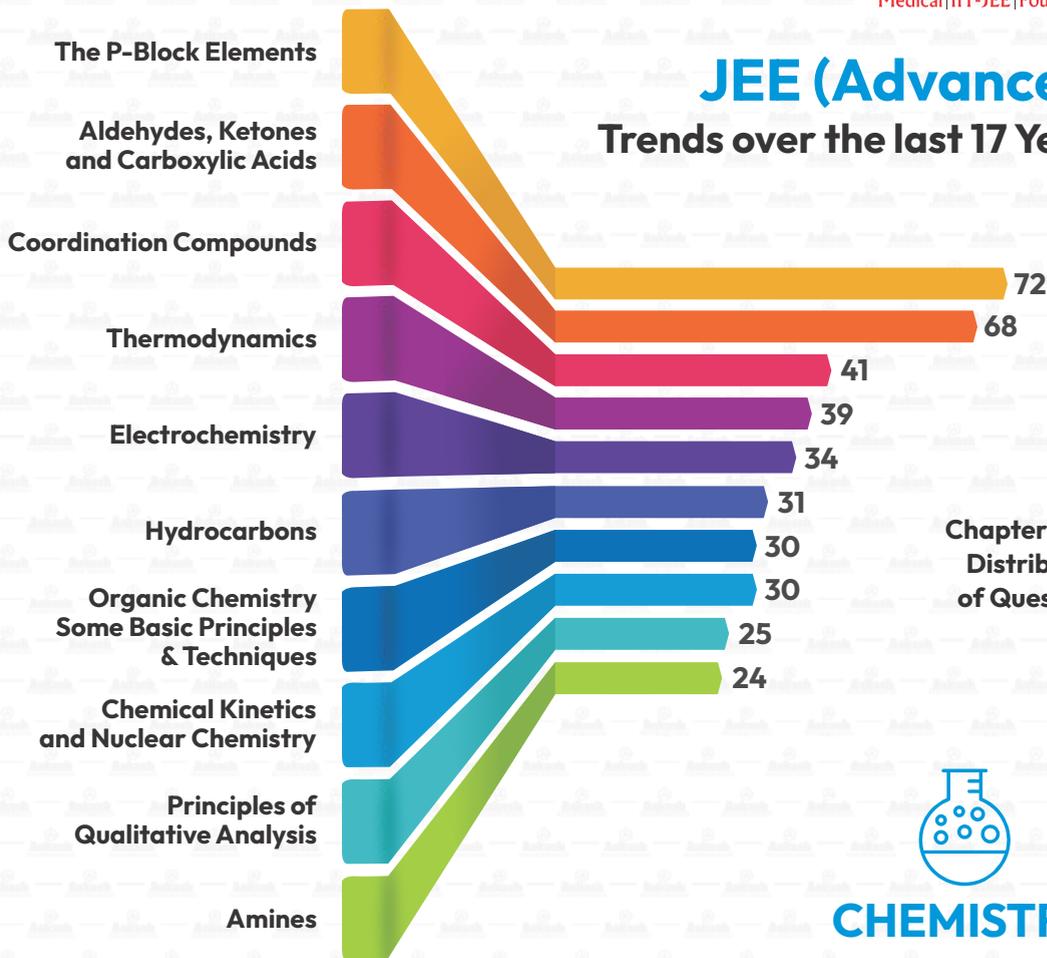


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JEE (Advanced)

Trends over the last 17 Years



Chapter-wise
Distribution
of Questions



CHEMISTRY

Chapter Name (Mathematics)

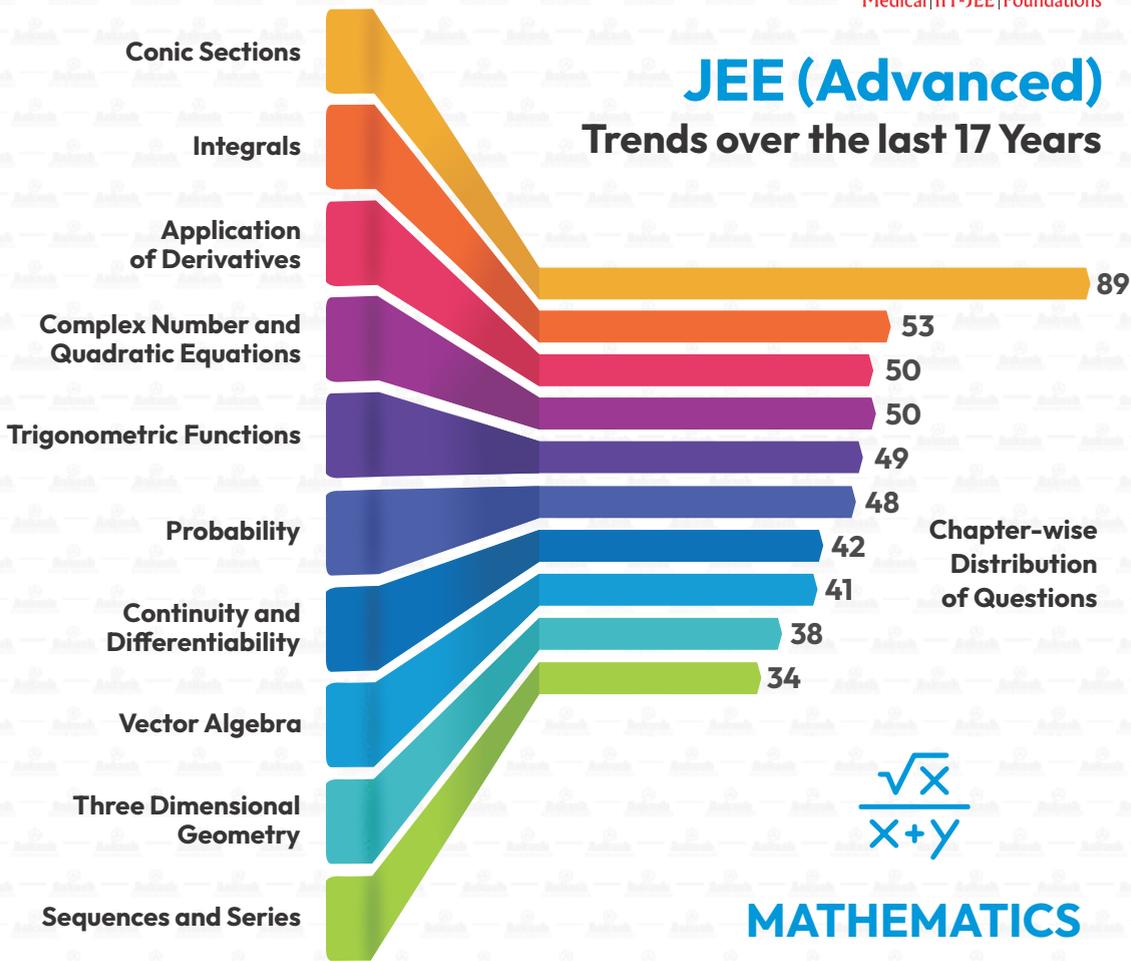


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JEE (Advanced)

Trends over the last 17 Years



MATHEMATICS

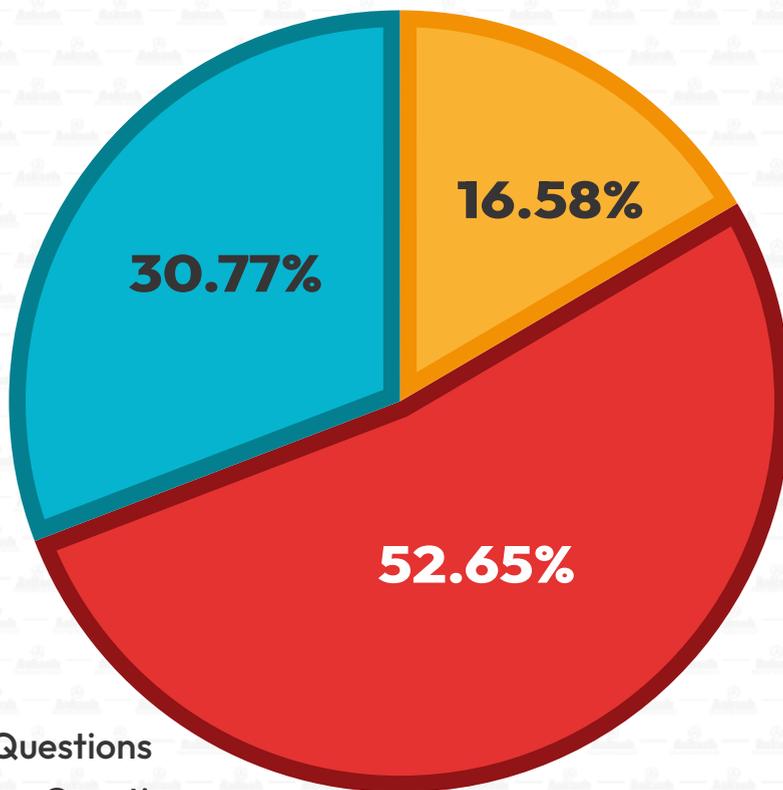
Level of Questions Across Years

Last 17 Years' Analysis



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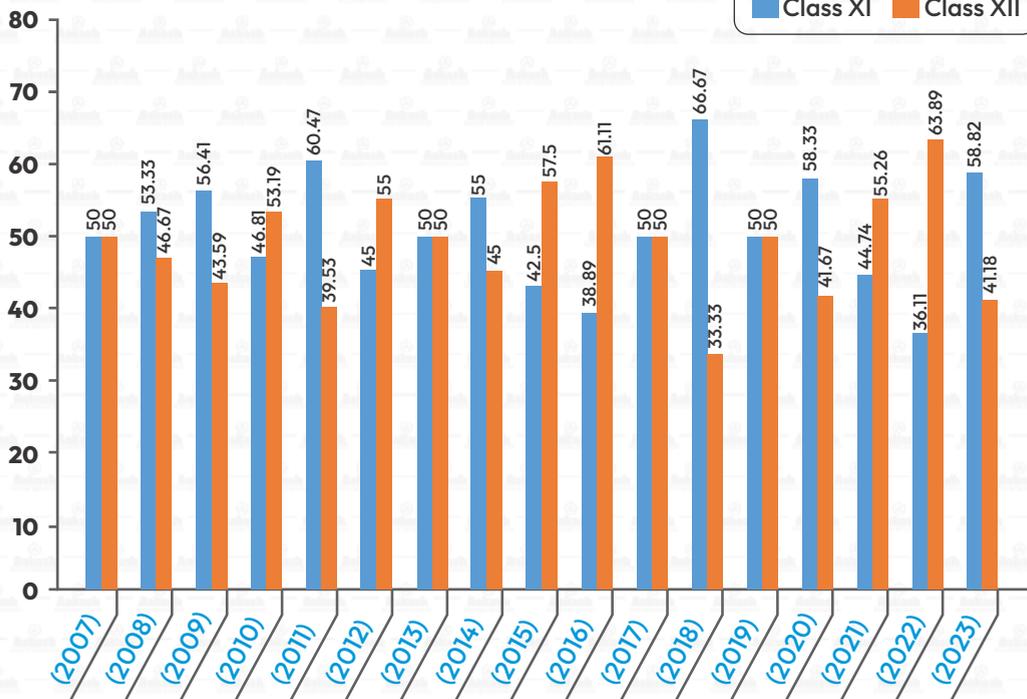
- Easy Questions
- Medium Questions
- Difficult Questions

JEE (Advanced) Year-wise & Class-wise question distribution

In Percentage

Physics

Class XI Class XII

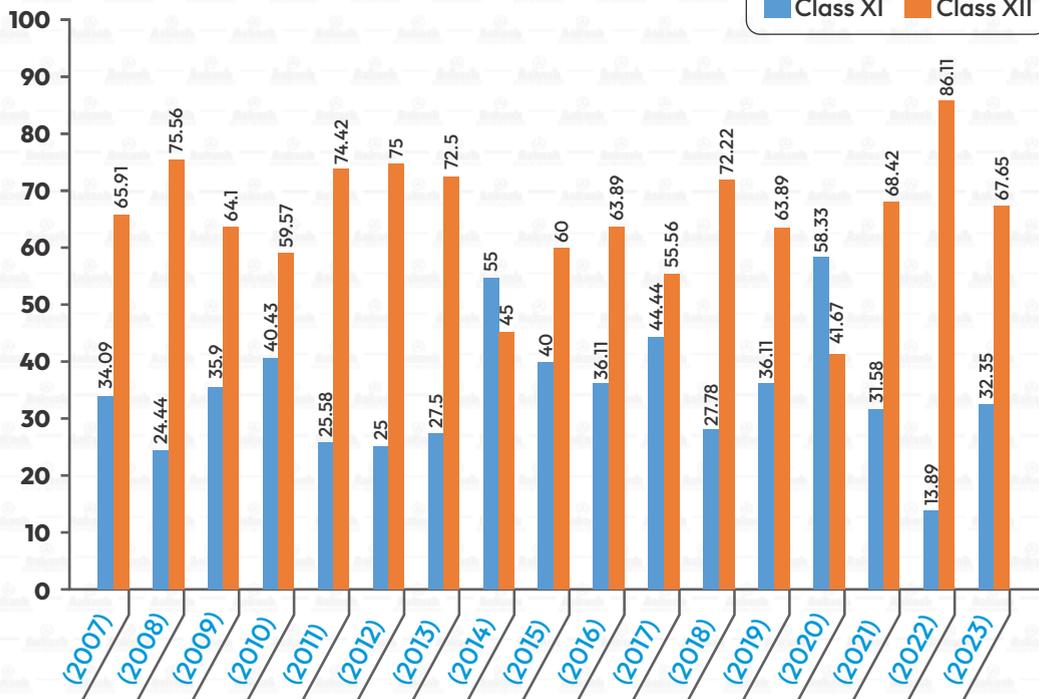


JEE (Advanced) Year-wise & Class-wise question distribution

In Percentage

Chemistry

■ Class XI ■ Class XII

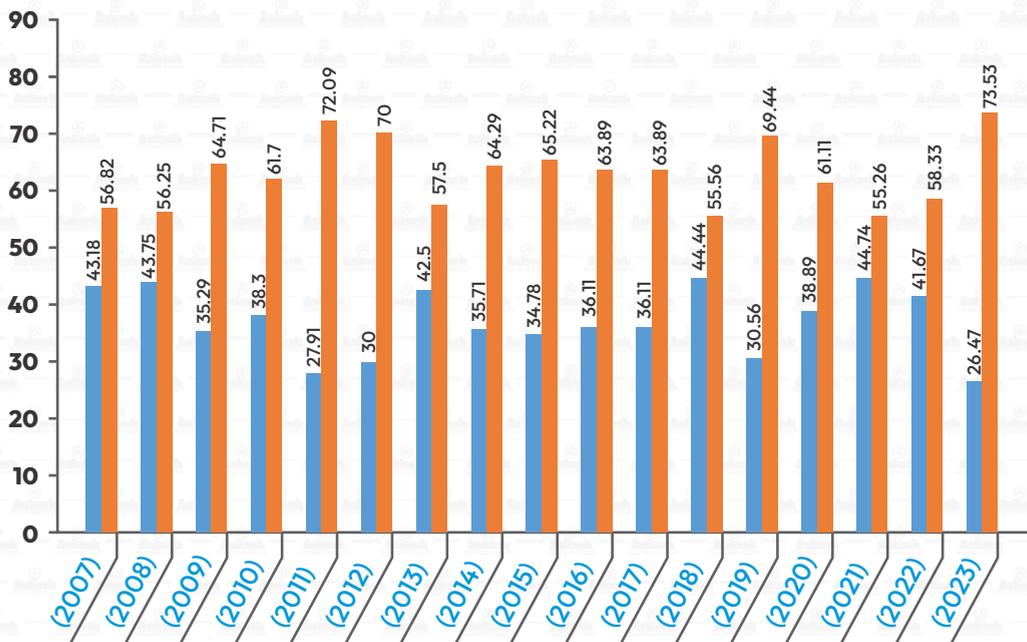


JEE (Advanced) Year-wise & Class-wise question distribution

Mathematics

■ Class XI ■ Class XII

In Percentage



Success Mantra

from JEE (Advanced) 2023 Topper

- Spread out learning over time rather than rote memorization before practice exams. It is best to try and memorize concepts or at least understand a concept thoroughly while it is being taught, which also allows you to invest more time in learning the concept in depth.
- Ensure you devote enough time to studies everyday while balancing your hobbies as an off-ramp to burnout. Stay consistent in your studies throughout the years you devote to your preparation, and revise concepts regularly.
- Use the practice tests to test out different strategies of tackling a paper, to identify an order of tackling the three subjects that works best for you.
- Do not stress out about the JEE examinations. Write all practice tests and the final test calmly and without trying to rush through calculations. Don't let the pressure of wanting a good result preclude a good performance in the exam.
- I ensured that I had adequate sleep and that health would not be a burden on my daily activities and prep.
- I was consistent over the course of my prep and revisited older topics to ensure I had understood them well.
- Attempting multiple practice questions and PYQs from competitive exams helped prioritize the topics and formulas I needed to focus on and identify inconspicuous patterns in questions that could then be tackled with similar problem-solving strategies.
- Maintain a motivational peer group, and maintain constructive competition with your peers and with your own previous performances, to constantly improve your own performance.



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Aditya Neeraje
JEE (Adv.) **AIR-27**

Success Mantra

from JEE (Advanced) 2023 Topper

- Exams like JEE Advanced requires deep learning and clear cut conceptual clarity throughout the syllabus. It goes on without saying that if you are quite clear with the concepts then you are super ready for any type of question.
- Preparation does not happen within few days or last month. You have to continuously put the efforts, dedication and hard work.
- Smart work plays a major role in your preparation. There are millions of books available in the market that you cannot read even through your whole life. So choose the material wisely as suggested by your mentors. Remember less is more.
- The D-Day plays major role in deciding your result of years of hard work. Learn to stay calm and composed and increase your common sense and calculation skills via a lot of practice.
- Motivation comes from you only! If you really want to achieve your dream career then nobody can stop you and that fire will keep burning till last moment.

SOME POINTERS ABOUT MY JOURNEY:

- I started my journey in class 11 with a strong foundation I have created in my junior classes and continued this till my last moment with consistency and hard work.
- I had completed my syllabus till October 2022 with the great help of my mentors and then in last few months I revised multiple times, gave a lot of mock test to increase my sitting time of 6 hours without being tired, done pyqs in detail to understand pattern and revisited my doubts and silly mistakes.
- I had practiced mathematics a lot. This helped me doing questions fast and smartly.
- I have been very honest with my parents, teachers and indeed to myself.
- Low phases keep coming in my Olympiad and JEE journey but I never give up. Instead of being shattered, I emerged even more stronger me ready to chase my aim with all dedication.



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Aakash Gupta
JEE (Adv.) AIR-28

Success Mantra

from JEE (Advanced) 2023 Topper

- I kept a somewhat regular sleep cycle, and made sure to eat well.
- I didn't count the number of hours I studied; instead, I measured my productivity by setting a quota for a day (Pending assignments, preparation for upcoming tests etc.)
- It can be hard to stay motivated for 2 years, but it's easy to be motivated for a test in 2 days. Regular testing helped keep me up to date with studies along with some harsh reality checks.
- I was interested in olympiads like NSEs, PRMO, KVPY and preparing for them was a welcome break from JEE, while creating checkpoints along the way to judge national level competition.
- My peer group was quite competitive and our class discussions helped strengthen my concepts.
- I made sure to do error analysis after the tests, and discuss with teachers/classmates about any conceptual doubts or alternate solutions.
- When in doubt about which books are useful and which topics are relevant, archive is god.
- I stayed away from social media during my JEE preparation to avoid distractions.
- It is important to talk to your parents regularly. Your teachers will help you academically, but parents help you emotionally and will be your best support system.
- Always be aware of your reality. Dreams motivate us, delusions blind us.
- JEE is not the end of life. There is a lot to life outside of this exam, and consistent effort is required regardless of your JEE rank.



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Tanishka Kabra
JEE (Adv.) AIR-1
Female Category

Success Mantra

from JEE (Advanced) 2020 Topper

- I put lot of effort to prepare for the competition, studying relevant parts of the syllabus from 11th and 12th grade.
- To avoid distractions, I don't have a smartphone in 11th grade for limited social media interaction.
- I always devoted time to solving previous year question papers and model test papers to excel in specific exams.
- From my point of view, Determination is more crucial for long-term preparation and staying motivated.
- Remember, Time management and realizing the value of your time are important for the forthcoming JEE(ADV).
- Switching between subjects and staying motivated helped me to study more effectively.
- I always focused on solving my physics problems and memorizing chemistry concepts.
- Spending extra time studying out-of-topic material helped me in understanding the course better and getting a broader perspective.
- Notes helped me to stay focused and avoid sleeping in class.
- I didn't revise my notes, but always used them as a method to pay attention and highlight important things.
- I always study beyond the syllabus those helped me in gaining additional knowledge and improving my exam performance.
- I appreciated the curriculum and teaching structure of Aakash Institute.
- The teachers at Aakash Institute played a significant role in my performance and provided continuous support to me.

SOME POINTERS ABOUT MY JOURNEY:

- Always use of spaced repetition gradually increases the time gap between repetitions, allowing for efficient learning with less time required.
- Stay away from distractions by avoiding social media and logging out of accounts.
- Visualizing a role model who is also studying can be a source of inspiration and helps with completing tasks on time.
- Be productive and avoid wasting time, focus on your goal and keep moving towards it.
- Ignore the results and focus on current tasks during your exam preparation.
- Lastly, Discipline is the key - train the mind and follow techniques systematically to achieve your goals.



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Chirag Falor
JEE (Adv.) **AIR-1**



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Top Preparation Tips



GET FAMILIAR WITH THE FORMAT: Knowing the overall structure of the JEE Advanced exam will give you a clear cut idea about the type of questions that are asked in the exam. This will also help you understand important topics, weightage for different types of questions, total number of questions, marking scheme and time allotted for each section.



SET YOUR DAILY GOALS: Define your goals and create a customized plan for achieving them. A good plan allows candidates to divide the huge task of preparation into manageable units. Make sure your targets are realistic and achievable.



ATTEMPT PREVIOUS YEARS' PAPERS AND MOCK TESTS: Solving previous years' papers helps you get used to taking this lengthy six hour exam. Moreover, attempting more and more mock tests will improve your problem-solving pace and accuracy.



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Top Preparation Tips



UNDERSTAND THE CONCEPTS: JEE Advanced exam is focused on the understanding and application of the concepts. By solving more and more numerical problems you will have a better understanding of the concepts. Eventually, you will be able to apply these concepts learned in solving complex problems.



USE THE RIGHT RESOURCES: NCERT books are the backbone of JEE Advanced. However, these alone won't be enough for the exam preparation. Therefore, along with NCERT, you must practice from various other resources such as modules, mock tests, sample papers and practice tests. Align your learning style with the suitable study material in order to get a successful result.



EVALUATE YOUR PREPARATION: Knowing how much you have learned, helps you get a reality check of your preparation. Evaluate your performance on a regular basis. Analyze your errors and further make a plan for their rectification. As doubts are an integral part of learning so whenever you get one, get it solved timely.

Best Books for JEE (Advanced) 2024

There are hundreds of books out there on each subject. Selection of relevant and sufficient books is most important part of strategy to crack JEE Advanced with top ranks.

Our experts have selected them for you on the basis of deep understanding of JEE requirements. These are :

1 PHYSICS

- NCERT Books (Vol.1 & 2 of 11th & 12th)
- Concept of Physics (Vol.1 & Vol.2)
- Problems in General Physics by I.E. Irodov
- Problems in Physics by S.S. Krotov
- Problems in Elementary Physics by Bukhovtsev & Shalnov
- Pathfinder's Physics by Arvind Tiwari
- 200 Puzzling Physics problems by Gnadig

2 CHEMISTRY

- Atkins Physical Chemistry
- Solomon's Organic Chemistry
- Concise Inorganic Chemistry by J.D. Lee.
- Basic Inorganic Chemistry by Cotton and Wilkinson

3 MATHEMATICS

- Educative JEE (K. D. Joshi)
- A Problem Book in Mathematical Analysis (G.N. Berman)
- Higher Algebra (Hall & Knight)
- The Elements of Coordinate Geometry (S.L. Loney)
- Plane Trigonometry Part-I (S.L. Loney)
- Calculus (Thomas & Finney)



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Subject-wise Preparation Strategy

Physics

Physics is concept based subject. So it requires in-depth understanding of natural laws and their applications. It is more interesting than other subjects.



- Fundamentals of physics must be understood first from NCERT and HCV books.
- Concept must be developed to solve numerical.
- Try to solve problems with the help of diagrams. Put data on diagram and then analyze to get it done in minimum steps.
- Practice past years questions. They are most relevant for the exam.
- Modern physics is high scoring and easy too.
- Solve HCV first, then go for Irodov's problems.
- Develop analytical skills for solving problem. Do not try to remember.
- Olympiad exposure is beneficial for JEE Advanced. So appear for Physics Olympiad exams.
- Pathfinder's Physics and 200 Puzzling problems can be solved for top 100 ranks in JEE.
- Electrodynamics, Optics, Modern Physics are important units.



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Subject-wise Preparation Strategy

Chemistry

JEE (Advanced) chemistry, traditionally considered as the easiest of the three subjects, may be easily nailed by a comprehensive study of NCERT Chemistry and solving previous years questions.

- Practice rapid multiplications and divisions while answering physical chemistry questions. This will save your time during the exam.
- Practice makes a man perfect, so practice similar JEE (Advanced) papers.
- Solve previous years questions.
- For organic chemistry, concentrate on mechanism.
- Practice the reactions by writing them several times so that they get ingrained in your mind.
- Periodic revisions are required to excel in Chemistry.
- Attempt variety of questions.
- Time management plays an important role in JEE Advanced.



Mathematics

Solving Mathematics problems in JEE Advanced requires extreme clarity about concepts and a very good hold on the fundamentals along with excellent problem solving skills. Most of the questions posed in JEE Advanced involve application of multiple concepts in a single question.

- 
- Vectors and Three Dimensional Geometry are interrelated topics and can be mastered with relative ease. Questions involving these have regularly been appearing in the exam.
 - Matrices and determinant forms another set of interrelated topics which have very little content but questions from these chapters are regular feature of JEE (Adv.) Papers.
 - Probability, Permutations and Combinations, and Binomial Theorem is another bunch which can be mastered in a single go.
 - Calculus contributes to significant part of papers hence must be kept on priority while preparing for JEE (Adv.) as it needs time to develop understanding of the ideas involved.
 - It is very rare to frame a question from coordinate geometry which can't be solved easily. What matters is the time required to solve it, which can be shortened considerably if the correct approach is chosen. Coordinate Geometry is all about right approach and hold on basic geometry.
 - From Complex Numbers and Progressions, one question each, can be expected in the exam and both can be studied independently.
 - Quadratic Equations and Trigonometry form the basics of mathematics, so any student can't afford to avoid these chapters. These topics are directly or indirectly involved in some questions in the JEE paper on regular basis.
 - Don't forget the recently added topics like Statistics and Relations, these are very easy to master and some easy questions from these topics can be expected.

The D-Day Strategy



Preparing for the JEE (Advanced) exam, which is one of the most competitive engineering entrance exams in India, requires a well-thought-out strategy. Here are some key strategies for the D-Day, based on the experiences of JEE Advanced toppers:

Stay Calm and Confident: Toppers emphasize the importance of staying calm during the exam. Confidence in your preparation is crucial. Keep a positive attitude and don't let anxiety overwhelm you.

Time Management: Allocate a fixed time to each section or question. If you get stuck on a particular problem, move on and come back to it later. Toppers advise not spending too much time on a single question.

Easy Questions First: Start with the questions you find easiest. This helps build your confidence and ensures you secure those marks early on. If your first hour is productive it will surely bring a lot of confidence in your second and third hours also.

Read Questions Carefully: Before you begin, read the instructions and question papers carefully. Understand the marking scheme, negative marking and any special instructions. This is so because JEE Advanced changes its pattern each year and it became very important for a student to focus on the changed marking scheme and pattern.

Problem Solving Approach: Toppers often recommend first reading the entire question to understand what is required. Break down complex problems into smaller, manageable steps.

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JEE (Adv.)
RANK
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Anmol Arichwal
4 Year Classroom

58th AIR
JEE (Adv.)
2021



Chirag Falor
4 Year Classroom

1st AIR
JEE (Adv.)
2020

The D-Day Strategy

Guess Wisely: If you are unsure about an answer, use the elimination method to make an educated guess. Toppers suggest guessing only if you can eliminate at least one or two options.

Time for Revision: Reserve some time for revising your answers. Check for any careless mistakes or omissions. Revising can help you improve your score.

Prioritize Strong Subjects: If you have a clear preference for one subject, prioritize it. Toppers often start with their strongest subject to maximize scores.

Don't Panic: If you encounter a difficult question or a section that seems tough, don't panic. Stay composed and tackle it with a clear mind.

Healthy Breaks: Take short, refreshing breaks if needed. This can help you recharge and maintain focus.

Reporting Time: Ensure you reach the examination center well ahead of time. Being rushed or late can add unnecessary stress.

Believe in Yourself: Trust your preparation and the effort you've put in. Toppers often stress the importance of self-belief in achieving success.

These strategies, derived from the experiences of JEE Advanced toppers, can help you on the day of the exam. It's important to remember that each person's approach may vary, so adapt these strategies to suit your own preferences and strengths.

Best of Luck !!!

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2340 Aakashians Qualified in
JEE (Adv.) 2023

2160 Classroom + 180 Distance & Digital

8

in Top 50 AIR
(All India Rank)

20

in Top 200 AIR
(All India Rank)

43

in Top 500 AIR
(All India Rank)

84

in Top 1000 AIR
(All India Rank)

Including Students from Classroom, Digital & DLP Courses across all Categories



Aditya Neeraje
2 Year Classroom

27 AIR



Aakash Gupta
1 Year Classroom

28 AIR



Tanishq Mandhane
4 Year Classroom

29 AIR



Kamyak Channa
4 Year Classroom

31 AIR



Dhruv Sanjay Jain
4 Year Classroom

36 AIR



Shivanshu Kumar
4 Year Classroom

42 AIR

& many more...

**SCAN THE
QR CODE**
TO CHECK ALL THE
RANKS & WATCH
WHAT OUR TOPPERS
HAVE TO SAY



Aakashians Shine as Champions in JEE (Advanced)



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JEE (Adv.)
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Tanishka Kabra
4 Year Classroom

ALL INDIA RANK
(Female) **1** AIR-16 CRL
JEE (Adv.)
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58 AIR
JEE (Adv.)
2021



Chirag Falor
4 Year Classroom

1 AIR
JEE (Adv.)
2020