

CAREERS 360

PREPARATION **Series**

JEE Advance 2025

Paper Analysis

(Paper 1 & Paper 2)

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Important Details about the Exam

JEE Advanced is an entrance exam for admission to the **Indian Institutes of Technology (IITs)** and a few other top engineering institutes in India. The exam is conducted under the supervision of the **Joint Admission Board (JAB)**, which consists of representatives from all the IITs. JAB is the apex decision-making body for JEE Advanced and handles important aspects like exam pattern, syllabus, eligibility, and seat allocation policy. JEE Advanced 2025 is conducted by IIT Kanpur.

Eligibility Criteria:

- Must qualify JEE Main and be among the top candidates as per the JEE Main rank cutoff.
- Age limit: Generally, candidates should be born on or after October 1, 1998 (with 5 years relaxation for SC/ST/PwD).
- Number of attempts: Maximum 3 attempts in three consecutive years.
- Should have passed Class 12 or equivalent exam with required subjects.
- Must not have been admitted to IITs earlier.

Exam Pattern

Parameter	Details
Number of Papers	2 (Paper 1 and Paper 2)
Duration of Each Paper	3 hours
Subjects Covered	Physics, Chemistry, Mathematics
Type of Questions	- Multiple Choice Questions (MCQs)
	- Numerical Answer Type Questions
	- Match the Following / Linked Comprehension
Number of Questions	Varies every year (usually 54-66 questions per paper)

Language	English and Hindi (Gujarati in some centers)
Mode of Exam	Computer-Based Test (Online)
Marking Scheme	Varies by question type:
	- Some MCQs with single correct answer
	- Some MCQs with multiple correct answers
	- Numerical questions usually without negative marking
	- Partial marking may be applied in some questions
Negative Marking	Yes, for some questions (varies each year)
Total Marks	Varies (generally around 360 marks total)

This analysis is based on memory-based information provided by students who attended the exam. Real, accurate analysis may vary and will be provided when the official question paper is released.

Difficulty Level of Paper 1 and Paper 2

Difficulty Level of Physics Paper 1

Difficulty Level	Paper	% of Difficulty
Difficult	Paper 1	3
Easy	Paper 1	3
Medium	Paper 1	5

Difficulty Level of Physics Paper 2

Difficulty Level	Paper	% of Difficulty
Difficult	Paper 2	4
Easy	Paper 2	2
Medium	Paper 2	4

Difficulty Level of Chemistry Paper 1

Difficulty Level	Paper	% of Difficulty
Difficult	Paper 1	11
Easy	Paper 1	0
Medium	Paper 1	3

Difficulty Level of Chemistry Paper 2

Difficulty Level	Paper	% of Difficulty
Difficult	Paper 2	7
Easy	Paper 2	0
Medium	Paper 2	6

Difficulty Level of Maths Paper 1

Difficulty Level	Paper	% of Difficulty
Difficult	Paper 1	5
Easy	Paper 1	0
Medium	Paper 1	5

Difficulty Level of Maths Paper 2

Difficulty Level	Paper	% of Difficulty
Difficult	Paper 2	5
Easy	Paper 2	0
Medium	Paper 2	4

Chapter-wise Weightage

Chemistry Weightage

Chapters	No.of questions
P- Block Elements	5
Alcohols, Phenols And Ether	2
Aldehydes, Ketones And Carboxylic Acid	2
Amines	2
Coordination Compounds	2
Electrochemistry	2
Hydrocarbons	2
Solutions	2
Some Basic Concepts of Chemistry	2
States Of Matter	2
Biomolecules	1
Chemical Bonding And Molecular Structure	1
Chemical Kinetics	1
D- and- F-Block Elements	1
Equilibrium	1
Haloalkanes And Haloarenes	1
Solid state	1
Surface Chemistry	1
Thermodynamics	1

Physics Weightage

Chapters	No.of questions
Mechanics	9
Electricity and Magnetism	8
General	4
Thermal Physics	4
Modern Physics	3
Optics	3
Electromagnetic Waves	1

Maths Weightage

Chapters	No. of questions
Differential Calculus	7
Algebra	6
Analytical Geometry	5
Probability and Statistics	4
Vectors	3
Matrices	2
Sets, Relations, and Functions	2
Trigonometry	2
Integral Calculus	1

Overall Paper Analysis: Paper 1

- Overall, the paper was of an easy to moderate difficulty level.
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- A total of 48 questions were asked — 16 each from Physics, Chemistry, and Mathematics.
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- The paper included a mix of Match the Following, Multiple Correct, and Single Correct type questions, as expected.
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- Chemistry was the easiest among all three subjects.
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- Physics was doable but slightly tricky due to questions involving a mix of multiple chapters and concepts.
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- In terms of difficulty: Physics > Mathematics > Chemistry.
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There are a total of 4 sections

Section 1

Total No.of questions 4
All are single correct
Marking scheme, +3 and -1
Total marks: 12

Section 2

Total No.of questions 03
All have multiple correct answers
Marking scheme,+4 and -2, and having partial marking,
Total marks: 12

Section:03

No.of questions: 06
All are numerical-based questions (integer type)
Marking scheme,+4 and zero negative marking
Total marks: 24

Section: 4

Total questions:03

Matching column type questions.

Marking scheme,+4 and -1

Total marks: 12

Note: Total marks of each subject are = 60

Note: Total marks in JEE Advanced paper 1 *for physics, chemistry, maths is 180.

Overall Paper Analysis: Paper 2

Shift 2 was slightly tougher than Shift 1.

- A total of 48 questions were asked — 16 each from Physics, Chemistry, and Mathematics.
 - Question format:
 - Single correct: 4
 - Multiple select: 4
 - Numerical value type: 8
 - No paragraph-type questions were included.
 - No out-of-syllabus questions were reported.
 - Physics and Mathematics were lengthy, while Chemistry was doable.
 - Physics was once again the most challenging section.
 - In terms of difficulty: Physics > Mathematics > Chemistry.
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This analysis is based on memory-based information provided by students who attended the exam. Real, accurate analysis may vary and will be provided when the official question paper is released.

Physics Analysis

- Physics was doable but slightly tricky due to questions involving a mix of multiple chapters and concepts.
- Similar to Paper 1- not easy, not tough either.
- Physics is tough and lengthy
- Topics
 1. Electrostatic-1
 2. Wave optics -1
 3. Unit and dimensions-1
 4. Projectile-1
 5. Shm-1
 6. Capacitor -1

This analysis is based on memory-based information provided by students who attended the exam. Real, accurate analysis may vary and will be provided when the official question paper is released.

Maths Analysis

- Maths is a lengthy and easy-to-moderate level paper 1.
- Maths is also moderate and lengthy in Paper 2.

This analysis is based on memory-based information provided by students who attended the exam. Real accurate analysis may vary and will be provided when the official question paper is released.

Chemistry Analysis

- Chemistry was the easiest among all three subjects in Paper 1.

- Chemistry is doable in a paper 2.

This analysis is based on memory-based information provided by students who attended the exam. Real accurate analysis may vary and will be provided when the official question paper is released..

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