

# CRACK JEE

## Deep JEE Analysis

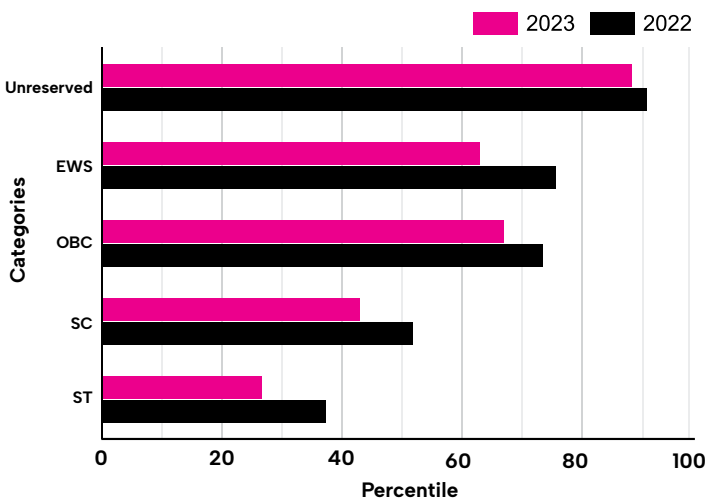
“You can either experience the pain of discipline or the pain of regret.  
*The choice is yours*”



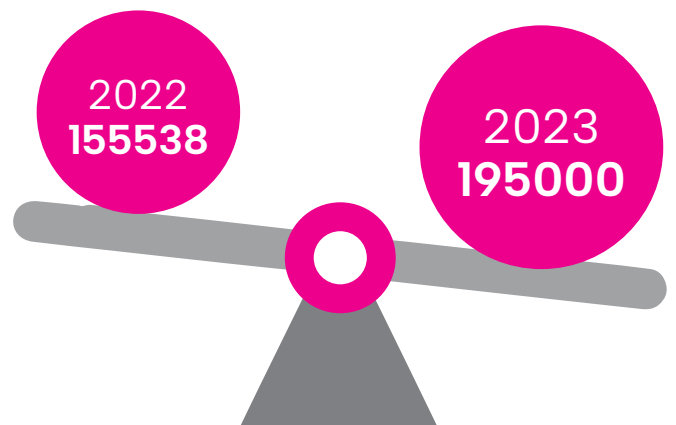
JEE advanced number of appeared and seats status- last 5 years

Stats	2023	2022	2021	2020	2019
Eligible	250000	262175	260010	250681	245194
Registered	189744	160038	151209	160838	174432
Appeared	180372	155538	141699	150838	NA
Qualified	43773	40712	41862	43204	38705
Seats	12385	11528	16296	16053	12461

Cut off for writing JEE (Adv) (in percentile)



No. of appearing Candidates:  
2022 vs 2023



### TYPES OF QUESTION IN JEE ADV. 2023

Numerical type	24
Multiple correct	36
Matrix Match Type	12
Integer Type	24
Single correct	12

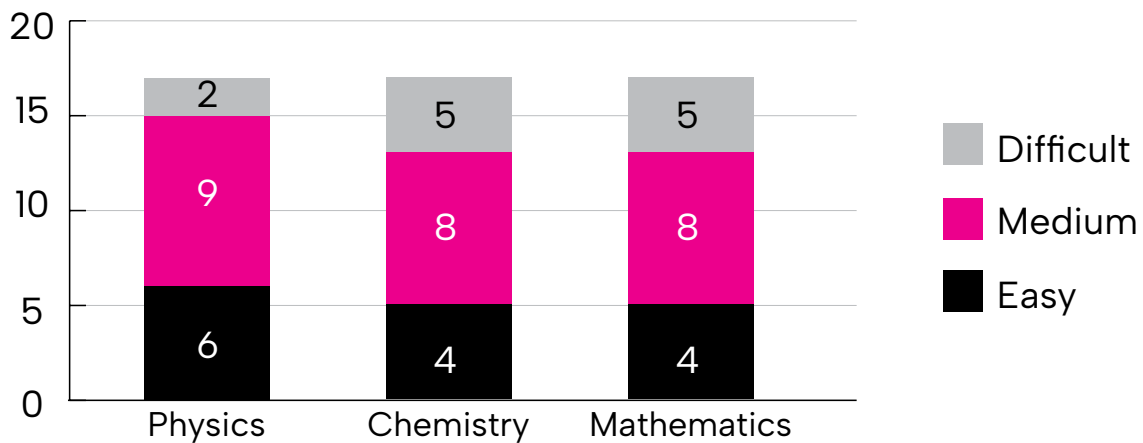
This Jump of **39,672** in the No. of Candidates directly affect candidates' **Rank & Percentile**.

## JEE Advanced RANK vs MARKS (in percentage) : last 10 years

Rank	2023	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
1	90	87	97	89	93	94	93	86	84	87	86
100	79	66	79	70	73	76	83	69	70	78	76
500	67	53	66	59	61	65	76	55	60	69	67
1000	60	47	59	53	55	59	72	49	57	63	62
2000	53	41	52	46	50	53	67	44	49	57	56
3000	48	37	47	42	47	49	63	43	45	54	52
4000	45	34	43	39	44	46	60	38	43	51	49
5000	43	32	40	37	42	44	58	36	40	49	47
6000	40	30	38	35	40	42	56	34	39	47	46
7000	39	29	36	34	39	40	54	33	37	46	44
8000	38	28	34	32	37	39	52	32	36	44	43
9000	36	27	33	31	36	38	51	31	35	43	41
10000	34	26	31	30	35	36	50	30	33	42	40

## Subject-wise difficulty level analysis: no of questions

Subject	Easy		Medium		Difficult		Grand Total	
	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks	No of Questions	Total Marks
Physics	6	30	7	33	2	7	17	60
Chemistry	4	16	8	30	5	17	17	60
Mathematics	4	14	8	28	5	18	17	60
<b>Grand Total</b>	<b>14</b>	<b>47</b>	<b>25</b>	<b>91</b>	<b>12</b>	<b>42</b>	<b>51</b>	<b>180</b>



## Category-wise division of questions: last 7 years

Types of Ques	2022	2021	2020	2019	2018	2017	2016
Numerical type	40%	40%	50%	29%	40%	52%	12%
Multiple Correct	40%	40%	36%	52%	40%	46%	52%
Matrix Match type	10%	0%	0%	10%	10%	15%	0%
Single Correct	10%	10%	14%	10%	0%	17%	27%
Paragraph	0%	10%	0%	0%	10%	10%	10%

# PHYSICS

## Topic-wise weightage

Topic/Year	Electromagnetism	Mechanism	Thermodynamics	Modern Physics	Optics	Misc
2023	30%	24%	10%	10%	15%	4%
2022	33%	25%	11%	11%	17%	3%
2021	29%	37%	11%	11%	8%	5%
202	25%	47%	14%	3%	17%	3%
2019	22%	33%	17%	11%	6%	0%
2018	19%	53%	11%	11%	8%	0%
2017	33%	39%	11%	8%	14%	0%
2016	22%	28%	14%	19%	15%	3%
2015	23%	35%	8%	15%	10%	5%
2014	28%	43%	10%	3%	10%	8%
2013	23%	38%	10%	18%	8%	3%

## Chapter-wise weightage

Chapters	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Ray Optics	13%	9%	5%	14%	6%	6%	11%	12%	8%	6%
Electrostatics	13%	3%	7%	2%	6%	3%	0%	7%	8%	6%
Thermodynamics	13%	9%	3%	11%	8%	7%	2%	2%	8%	3%
Current Electricity	9%	0%	6%	0%	0%	0%	10%	5%	5%	3%
Nuclear Physics	8%	6%	0%	5%	6%	2%	7%	10%	0%	11%
Rotational Motion	8%	13%	8%	0%	6%	14%	3%	7%	5%	3%
Capacitance	6%	3%	0%	2%	3%	5%	0%	2%	3%	3%
Magnetic Effects of Current	5%	9%	2%	3%	8%	13%	0%	7%	10%	6%
Oscillations	3%	0%	0%	0%	5%	0%	3%	2%	0%	3%
Wave Optics	3%	0%	2%	3%	0%	3%	3%	2%	3%	2%
Motion in two dimensions	3%	3%	3%	2%	3%	2%	0%	0%	5%	2%
Dual Nature of Matter	3%	3%	0%	2%	3%	2%	6%	7%	3%	5%
Alternating Current	3%	3%	0%	3%	0%	7%	6%	0%	3%	3%
Gravitation	3%	3%	0%	2%	3%	2%	0%	5%	3%	3%
Work Power energy	3%	0%	2%	9%	3%	0%	0%	5%	5%	8%
Experimental Physics	3%	6%	0%	0%	0%	0%	2%	2%	5%	2%
Units and Dimensions	3%	3%	3%	3%	5%	2%	3%	5%	3%	3%
Mathematics in Physics	0%	0%	3%	0%	3%	2%	3%	2%	0%	3%

## Question distribution as per Class, Chapter, Topic & Difficulty

Q. No	Class	Chapter	Topic	Difficulty Level	Section	Question type	Marks per Question
1	11th	Work Power Energy	Conservation of Mechanical Energy, Collision	Medium	1	MCQs more than one correct answer	4
2	12th	Ray optics & Optical instruments	Prism	Medium	1	MCQs more than one correct answer	4
3	12th	Current Electricity	RC Circuit	Medium	1	MCQs more than one correct answer	4
4	11th	System of Particles and Roational Motion	Collision	Medium	2	MCQs with one correct answer	3
5	12th	Electrostatic Potential and Capacitance	Capacitors	Easy	2	MCQs with one correct answer	3
6	11th	Thermodyna mics	Thermodynamics Process	Easy	2	MCQs with one correct answer	3
7	11th	Gravitation	Variation of g	Easy	2	MCQs with one correct answer	3
8	12th	Dual Nature of Radiation & Matter, Atoms	Phot electric Effect	Easy	3	Non-negative integer type	4
9	12th	Ray optics & Optical instruments	Combination of Mirrors & Lenses	Difficult	3	Non-negative integer type	4
10	12th	Experimental Physics	Determination of focal length & Estimation of Error in f	Medium	3	Non-negative integer type	4
11	11th	Thermodyna mics	Thermodynamics Process	Medium	3	Non-negative integer type	4
12	12th	Ray optics & Optical instruments	Images & Shadows	Easy	3	Non-negative integer type	4
13	11th	Oscillations	Torsional Pendulum	Medium	3	Non-negative integer type	4
14	12th	Nuclei	Alpha and Beta decay	Easy	4	Match List	3
15	11th	Thermal Properties of Matter	Wein's displacement	Medium	4	Match List	3
16	12th	Alternating Current	Series LCR Circuit	Medium	4	Match List	3
17	12th	Electromagn etic Induction	Motional EMF	Difficult	4	Match List	3