Disha's
SMART
PREP
**Ed e**

CRACK JEE
Deep JEE Analysis

"You can either **experience the pain** of **discipline or the pain of regret**. *The choice is yours*"
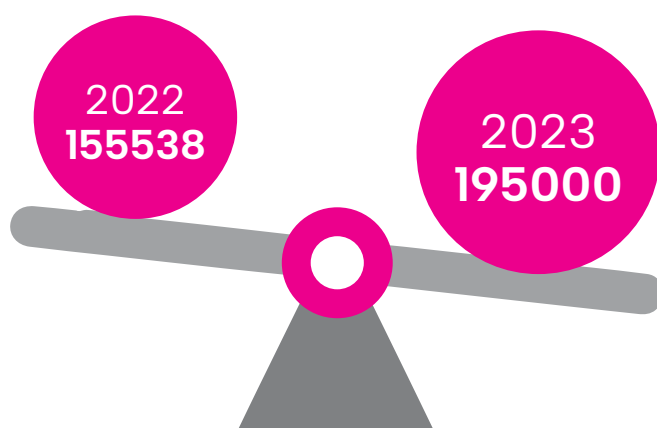
JEE advanced number of appeared and seats status– last 5 years

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	17385	16598	16296	16053	12461

Cut off for writing JEE (Adv) (in percentile)
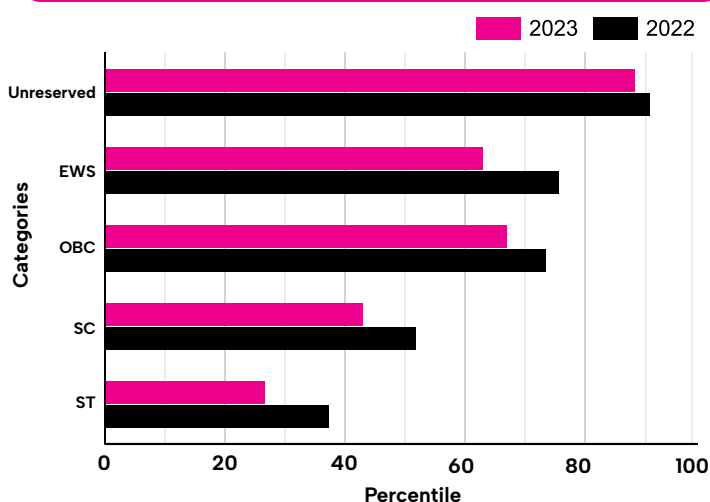
No. of appearing Candidates: 2022 vs 2023

2022
155538

2023
195000

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

TYPES OF QUESTION IN JEE ADV. 2023

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

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	20	9	33	2	7	17	60
Chemistry	4	13	8	30	5	17	17	60
Mathematics	4	14	8	28	5	18	17	60
Grand Total	**14**	**47**	**25**	**91**	**12**	**42**	**51**	**180**
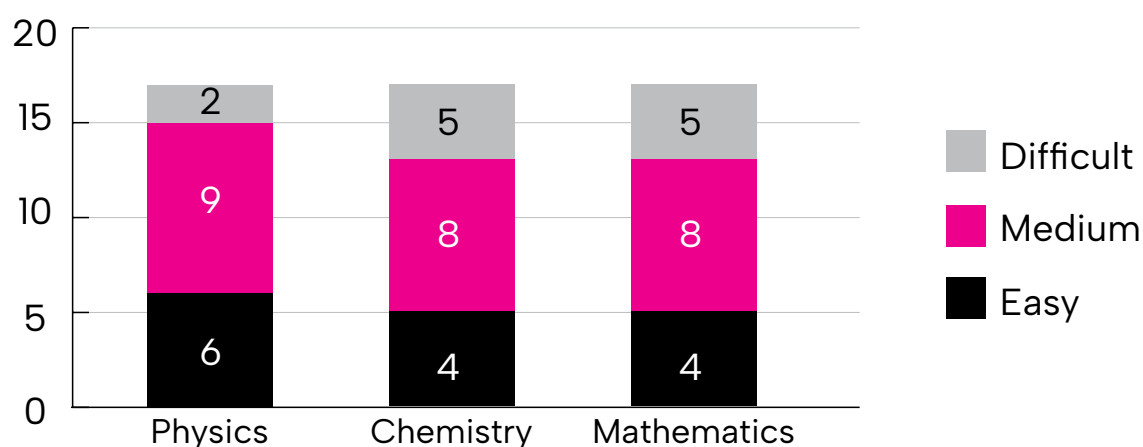
Category–wise division of questions: last 7 years

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%

MATHEMATIS

Topic–wise weightage

Units	Algebra	Calculus	Coordinate Geometry	Vector	Trigonometry	Misc.
2023	34%	24%	13%	7%	15%	12%
2022	33%	25%	14%	8%	17%	13%
2021	39%	29%	18%	5%	8%	0%
2020	36%	42%	6%	11%	6%	0%
2019	36%	25%	14%	11%	14%	0%
2018	28%	36%	14%	11%	8%	3%
2017	28%	42%	17%	8%	6%	0%
2016	39%	33%	14%	8%	6%	0%
2015	28%	40%	15%	10%	8%	0%
2014	30%	40%	13%	8%	10%	0%
2013	28%	28%	18%	18%	8%	3%

Chapter–wise weightage

Chapter	2022	2021	2020	2019	2018	2017	2016	2015	2014	2013
Complex Numbers	8%	6%	5%	5%	7%	3%	3%	4%	3%	4%
Definite Integration	8%	10%	6%	5%	6%	9%	2%	17%	13%	3%
Three Dimensional geometery	7%	0%	6%	9%	6%	2%	6%	5%	3%	10%
Trigonometric Equations	6%	0%	3%	5%	0%	3%	2%	2%	3%	0%
Differential Equations	6%	3%	3%	3%	9%	6%	6%	5%	5%	3%
Sequence and Series	6%	5%	6%	2%	3%	2%	5%	4%	3%	7%
Trigonometric Ratios and Identities	6%	0%	0%	6%	3%	0%	0%	0%	0%	0%
Limits	5%	0%	5%	6%	3%	3%	9%	5%	3%	0%
Permutation and Combination	5%	3%	6%	2%	5%	2%	2%	2%	13%	0%
Probabilty	5%	13%	8%	8%	5%	6%	7%	7%	35%	10%
Matrices	5%	7%	5%	9%	0%	2%	8%	2%	3%	6%
Circle	3%	0%	0%	7%	8%	2%	6%	0%	5%	3%
Vector Algebra	3%	7%	6%	2%	5%	5%	3%	7%	8%	8%
Parabola	3%	7%	0%	0%	0%	6%	3%	7%	3%	5%
Straight Lines	3%	6%	2%	2%	0%	0%	2%	2%	0%	7%
Determinants	3%	3%	0%	3%	6%	6%	6%	2%	0%	0%
Ellipse	3%	3%	0%	3%	3%	5%	2%	2%	0%	3%
Hyperbola	3%	0%	3%	0%	3%	3%	0%	2%	0%	0%

Question distribution as per Class, Chapter, Topic & Difficulty

Q. No	Class	Chapter	Topic	Difficulty Level	Section	Question type	Marks per Question
1	12th	Continuity and Differentiability	Continuity and Differentiability	**Medium**	1	MCQs more than one correct answer	4
2	11th	Conics Section II	Common tangents to Parabola and Eclipse	**Easy**	1	MCQs more than one correct answer	4
3	12th	Application of Intergrals	Area Under curve	**Difficult**	1	MCQs more than one correct answer	4
4	11th	Limits & Derivatives	Limits	**Difficult**	2	MCQs with one correct answer	3
5	12th	Three Dimensional Geometry	Shortest distance between two skew lines	**Medium**	2	MCQs with one correct answer	3
6	12th	Probability	Geometrical Probability	**Difficult**	2	MCQs with one correct answer	3
7	11th	Conics Section II	Parabola	**Easy**	2	MCQs with one correct answer	3
8	12th	Inverse Trigonometric functions	Properties of ITF	**Medium**	3	Non–negative integer type	4
9	11th	Straight line	Area of triangle	**Medium**	3	Non–negative integer type	4
10	11th	Sequence and series	Special series	**Difficult**	3	Non–negative integer type	4
11	11th	Complex Numbers	Conjugate	**Medium**	3	Non–negative integer type	4
12	12th	Three Dimensional Geometry	3D	**Difficult**	3	Non–negative integer type	4
13	12th	Binomial Theorem	FInding coefficients	**Easy**	3	Non–negative integer type	4
14	12th	Matrices and Determinants	System of Equation	**Medium**	4	Match List	3
15	12th	Statistics	Mean deviation	**Easy**	4	Match List	3
16	12th	Three Dimensional Geometry	Perpendicular distance of a point from a plane	**Medium**	4	Match List	3
17	12th	Complex Numbers	Geometry of Complex numbers	**Medium**	4	Match List	3