

# TOPIC-WISE WEIGHTAGE ANALYSIS IN JEE (MAIN) FROM 2002 TO 2019\*

\*Offline Papers Only.

## History of JEE (Main)

- JEE (Main) is the entrance examination for admission in National Institute of Technology (NITs), Indian Institute of Information & Technology (IIITs), Government Funded Technical Institutes (GFTIs) & other prominent State & Private Engineering Colleges.
- National Institute of Technology (NITs) are declared as 'Institutes of National Importance' by Govt. of India.
- There are total 31 NITs in India, earlier NITs were called as Regional Engineering Colleges (RECs).
- There are total 18620 seats in 31 NITs for Undergraduate programs.
- Till 2011, JEE (Main) was formerly called as All India Engineering Entrance Examination (AIEEE). AIEEE started in the year 2002 and from 2002 to 2018 this examination was being conducted by Central Board of Secondary Education (CBSE), New Delhi.
- JEE (Main) is having 2 papers: Paper-1 & Paper-2. Engineering aspirants i.e. for B.E./B.Tech. program student has to appear only in Paper-1. Architecture aspirants have to appear in both paper-1 & 2.
- Till 2018, JEE (Main) was conducted in both Online & Offline mode. But from 2019 it would be conducted only as Computer Based Test (CBT).
- For the session 2018-19 some major changes have been made in JEE (Main), they are:
- JEE (Main) to be conducted twice in a year i.e. First attempt: January & Second attempt: April
- JEE (Main) to be conducted only as CBT i.e. Computer Based Test
- A student can take one or both attempts in a single year for a better performance
- JEE (Main) would now be conducted by National Testing Agency, an agency established by Govt. of India for conduction of examinations
- Best score/performance of a student in one or both attempts would be considered for allocation of All India Rank (AIR).





# TOPIC-WISE WEIGHTAGE ANALYSIS OF MATHEMATICS IN JEE (MAIN) FROM 2002 TO 2019

Topic	No. of Questions										Total No. of Ques.		1000 Avg. % Weightage																									
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013		2014	2015	2016	2017	2018	09/01 2019	10/01 2019	11/01 2019	12/01 2019	01/04 2019	02/04 2019	03/04 2019	04/04 2019	05/04 2019	06/04 2019	07/04 2019	08/04 2019	09/04 2019	10/04 2019	11/04 2019	12/04 2019				
STRAIGHT LINE	4	5	4	3	2	2	1	1	1	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	55	4.49	
CIRCLE	1	2	4	4	2	1	1	2	1	1	1	1	1	2	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	49	4.00
PARABOLA	1	1	1	1	1	1	1	0	1	0	1	1	1	2	1	0	1	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	29	2.37	
ELIPSE	2	0	1	1	1	0	1	1	0	1	0	2	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	25	2.04		
HYPERBOLA	1	1	0	1	0	1	0	0	0	1	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	19	1.55		
COMPLEX NUMBER	3	4	3	3	2	1	1	1	2	2	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45	3.67		
BINOMIAL THEOREM	2	3	4	5	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	51	4.16		
SEQUENCE & SERIES	5	1	3	1	2	1	1	1	1	1	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	57	4.65	
PERMUTATION & COMBINATION	0	2	2	1	1	1	2	1	1	1	1	1	1	0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	33	2.69		
QUADRATIC EQUATION	2	3	3	3	1	1	1	1	0	2	0	1	2	1	1	0	1	1	2	0	1	1	2	1	1	1	1	1	1	1	1	1	1	1	41	3.35		
MATRICES & DETERMINANTS	1	3	3	4	2	3	3	2	3	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	73	5.96		
PROBABILITY	6	3	3	2	1	2	2	2	2	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	54	4.41		
MATHEMATICAL INDUCTION	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0.24			
MATHEMATICAL REASONING	0	0	0	0	0	0	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	29	2.37		
TRIGO. RATIO & IDENTITIES	5	0	2	1	2	0	0	1	2	1	0	1	1	0	0	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	30	2.45		
TRIGONOMETRIC EQUATION	2	0	0	0	1	0	0	0	0	1	0	1	0	1	0	1	0	1	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	15	1.22			
INVERSE TRIGONOMETRIC FUNCTION	2	1	0	1	0	1	1	0	0	0	0	1	0	1	0	0	1	1	0	1	1	0	2	0	1	1	1	1	1	1	1	1	1	20	1.63			
HEIGHT & DISTANCE	0	1	1	0	0	1	1	0	0	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	9	0.73		
SETS & RELATION	0	0	1	1	1	0	1	1	1	1	1	1	1	1	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	18	1.47		
FUNCTIONS	4	5	4	2	1	1	2	0	1	1	0	1	0	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	36	2.94		
LIMIT OF FUNCTION	4	3	2	2	0	0	0	1	1	1	0	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	39	3.18		
CONTINUITY & DERIVABILITY	1	2	1	3	1	2	1	1	0	1	2	1	0	0	1	1	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	27	2.20		
DIFFERENTIATION (MOD)	3	1	1	0	1	0	0	1	1	0	0	1	0	0	1	0	1	0	1	0	1	0	1	1	1	1	1	1	1	1	1	1	1	20	1.63			
APPLICATION OF DERIVATIVES (ADD)	4	2	4	5	2	4	2	2	3	1	3	1	2	1	2	2	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1	1	1	69	5.63			
INDEFINITE INTEGRATION	1	0	2	1	0	1	1	0	0	0	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31	2.53			
DEFINITE INTEGRATION	5	6	4	3	4	2	1	1	1	2	1	1	2	0	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	71	5.80		
AREA UNDER CURVE	1	1	1	3	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	1.39			
DIFFERENTIAL EQUATION	3	2	2	2	1	1	2	1	1	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	45	3.67			
STATISTICS	1	2	2	3	1	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	36	2.94			
SOLUTION OF TRIANGLE	3	3	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	1.22			
EXPONENTIAL & LOG SERIES	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0.08			
STATICS & DYNAMICS	0	6	6	5	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	1.88			
VECTOR	5	6	5	7	2	2	2	2	2	2	2	2	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	89	7.27			
COORDINATE GEOMETRY (3NAD)	3	6	5	4	2	3	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	51	4.16			

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