



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 CHEMISTRY IN JEE (MAIN) FROM 2002 TO 2019

Topic	No. of Questions	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		Total No. of Ques.	1000 Avg. % Weightage
		75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100	75	100						
STOICHIOMETRY (MOLE1, 2)		7	1	6	4	2	2	2	1	0	1	1	2	1	0	1	2	1	1	2	1	1	2	1	2	3	1	0	3	1	0	3	0	1	1	1	2	2	1	2	2	49	4.90		
ATOMIC STRUCTURE		2	3	3	2	3	0	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	1	34	3.40			
GASEOUS STATE		2	2	3	1	1	1	0	0	1	1	1	1	0	0	1	2	1	1	1	1	1	1	1	2	1	0	1	0	1	0	1	1	1	0	1	1	1	2	25	2.50				
THERMODYNAMICS & THERMOCHEMISTRY		3	5	2	3	3	3	3	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	2	1	1	1	2	2	1	1	1	1	1	1	1	1	1	1	47	4.70				
CHEMICAL EQUILIBRIUM		2	4	4	3	2	0	1	0	2	1	0	2	1	0	1	0	1	1	1	0	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	2	33	3.30					
IONIC EQUILIBRIUM		4	4	1	2	0	3	3	3	1	1	1	1	0	3	1	1	1	1	0	3	1	1	1	1	0	0	1	4	NA	NA	NA	NA	NA	NA	NA	NA	1	30	3.00					
PERIODIC TABLE & PERIODICITY IN PROPERTIES		6	17	8	9	6	5	3	3	4	2	0	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	72	7.20					
CHEMICAL BONDING		7	3	3	5	6	4	2	1	3	3	2	2	4	2	2	2	2	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	63	6.30					
P-BLOCK		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	0	0	0	0	0	0	0	0	0	24	2.40					
S-BLOCK		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	0	0	0	0	0	0	0	0	0	14	1.40					
HYDROGEN & ITS COMPOUNDS		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	0	0	0	0	0	0	0	0	0	8	0.80					
GENERAL ORGANIC CHEMISTRY-I (GOC)		5	3	4	4	3	2	2	2	2	2	0	2	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	30	3.00					
GENERAL ORGANIC CHEMISTRY-II		0	0	0	0	0	0	0	0	0	0	2	1	0	2	1	0	2	1	0	2	1	0	3	1	0	2	0	2	0	2	3	1	1	1	1	1	1	20	2.00					
CHEMICAL KINETICS		6	3	1	3	3	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	1	1	38	3.80						
ELECTROCHEMISTRY		4	5	5	3	3	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	1	1	1	44	4.40					
SOLID STATE		1	0	1	2	1	0	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	1	1	22	2.20						
COLLIGATIVE PROPERTIES		2	4	3	4	2	3	2	2	2	2	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	39	3.90					
SURFACE CHEMISTRY		0	1	0	2	1	0	1	1	1	0	0	0	1	1	0	1	1	1	0	0	1	1	1	1	0	2	2	1	1	1	1	1	1	1	1	1	1	23	2.30					
NUCLEAR CHEMISTRY		2	1	2	3	1	2	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	0	0	0	11	1.10					
TRANSITION ELEMENTS AND COORDINATION CHEMISTRY		3	5	8	4	4	1	3	4	3	2	2	1	1	1	1	1	1	1	2	2	2	1	1	1	1	2	1	2	1	2	1	2	1	2	2	1	61	6.10						
METALLURGY		3	0	2	3	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	0	0	21	2.10					
D-BLOCK & F-BLOCK		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	0	0	0	0	0	0	0	0	0	18	1.80					
QUALITATIVE ANALYSIS		1	1	0	1	0	0	0	0	0	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	9	0.90						
PRACTICAL ORGANIC CHEMISTRY (POC)		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	0	0	0	0	0	0	0	0	0	18	1.80					
HYDROCARBONS		2	2	3	3	4	2	3	0	0	0	1	2	0	0	1	2	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	3.00					
ALKYL HALIDES		0	0	2	3	1	0	1	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	18	1.80					
ALCOHOLS AND ETHERS (REACTION MECHANISM)		0	1	2	1	1	1	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	0	0	35	3.50					
ALDEHYDES AND KETONES		1	0	0	1	0	0	0	0	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	14	1.40					
AROMATIC COMPOUND		2	2	1	2	4	3	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	1	0	37	3.70					
CARBOXYLIC ACID & THEIR DERIVATIVES		2	2	4	1	2	0	0	0	1	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	21	2.10					
AMINES		2	2	1	1	0	2	0	0	1	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	13	1.30					
CARBOHYDRATES, AMINO ACIDS & POLYMERS		3	4	3	4	2	1	2	2	2	2	1	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	52	5.20						
STEREO CHEMISTRY		3	0	3	1	0	1	1	1	2	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	12	1.20						
ENVIRONMENTAL CHEMISTRY		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	0	0	0	0	0	0	0	0	15	1.50						

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

Topic	No. of Questions	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		Total No. of Ques.	1000 Avg. % Weightage
		S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2	S1	S2						
STRAIGHT LINE		4	5	4	3	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	1	1	1	1	1	1	45	4.57		
CIRCLE		1	2	4	4	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	1	1	1	1	1	1	1	39	3.96		
PARABOLA		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	1	1	1	1	1	1	1	1	1	1	1	1	1	23	2.34	
ELLIPSE		2	NA	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	1	1	1	1	1	1	1	1	1	1	18	1.83		
HYPERBOLA		1	1	NA	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	1	1	1	1	1	1	1	1	1	14	1.42		
COMPLEX NUMBER		3	4	3	3	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	1	1	1	1	1	1	1	38	3.86		
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	1	1	1	1	1	1	41	4.16		
SEQUENCE & SERIES		5	1	3	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	1	1	1	1	1	1	1	1	1	1	45	4.57		
PERMUTATION & COMBINATION		NA	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	1	1	1	1	1	1	1	1	25	2.54			
QUADRATIC EQUATION		2	3	3	3	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	1	1	1	1	1	1	1	1	32	3.25		
MATRICES & DETERMINANTS		1	3	3	4	2	3	3	2	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	2	2	2	2	60	6.09		
PROBABILITY		6	3	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	2	2	2	2	2	2	2	2	2	2	45	4.57		
MATHEMATICAL INDUCTION		NA	NA	NA	1	NA	NA	1	NA	NA	NA	NA	NA	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	0.30			
MATHEMATICAL REASONING		NA	NA	NA	NA	NA	NA	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	1	1	1	1	1	21	2.13		
TRIGO. RATIO & IDENTITIES		5	NA	2	1	2	NA	NA	1	2	1	2	NA	NA	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	24	2.44		
TRIGONOMETRIC EQUATION		2	NA	NA	NA	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	1.12			
INVERSE TRIGONOMETRIC FUNCTION		2	1	NA	1	NA	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	1	1	1	1	1	1	13	1.32			
HEIGHT & DISTANCE		NA	1	1	NA	NA	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	1	1	1	1	1	1	8	0.81			
SETS & RELATION		NA	NA	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	1	1	1	1	1	1	1	1	1	16	1.62			
FUNCTIONS		4	5	4	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	1	1	1	1	1	1	1	30	3.05			
LIMIT OF FUNCTION		4	3	2	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	26	2.64			
CONTINUITY & DERIVABILITY		1	2	1	3	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	1	1	1	1	1	1	1	1	26	2.64			
DIFFERENTIATION (MOD)		3	1	1	NA	1	NA	NA	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	1	1	1	1	16	1.62			
APPLICATION OF DERIVATIVES (AOD)		4	2	4	5	2	4	2	2	3	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	1	1	55	5.58			
INDEFINITE INTEGRATION		1	0	2	1	NA	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	1	1	1	1	1	1	22	2.23			
DEFINITE INTEGRATION		5	6	4	3	4	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	1	1	1	1	1	55	5.58			
AREA UNDER CURVE		1	1	1	3	NA	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	1	1	1	1	1	1	16	1.62			
DIFFERENTIAL EQUATION		3	2	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	1	1	1	1	1	1	1	37	3.76			
STATISTICS		1	2	2	3	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	1	1	1	1	1	1	1	29	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	0	0	0	0	0	0	13	1.32			
EXPONENTIAL & LOG SERIES		0	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	0	0	0	0	1	0.10				
STATICS & DYNAMICS		NA	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	0	0	0	0	0	23	2.34				
VECTOR		5	6	5	7	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	2	2	2	2	2	2	2	2	2	2	71	7.21			
CO-ORDINATE GEOMETRY (3-D)		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	2	2	2	2	2	2	44	4.47			

Resonance Eduventures Ltd.

JEE- MAIN DIVISION CAMPUS: CG Tower -2, IA-51 (AJ), IPIA, Behind City Mall, Jhalawar Road, Kota (Raj.)-05 | **Contact:** 0744-2777744
Reg. & Corporate Office: CG Tower, A-46 & 52, IPIA, Near City Mall, Jhalawar Road, Kota (Raj) - 324005 | **CIN:** U80302RJ2007PLC024029
To Know more: sms **RESO** at **56677** | **E-mail:** contact@resonance.ac.in | **Website:** www.resonance.ac.in