

AIEEE 2004 Analysis

1. How was the paper overall? (Difficulty level) and which section was tougher compared to others?

Ans: Overall, AIEEE 2004 was more or less at same difficulty level as compared to the paper of last year. However, the mathematics section was slightly lengthier as compared to other sections. As per our analysis and discussions with our students, the Physics section was easier of all the three sections, and in Chemistry section, organic part was a bit confusing.

2. What would be a comfortable score in each section?

The comfortable score, section wise, would be as follows.

Section	Comfortable score
Chemistry	100
Physics	120
Mathematics	100

A student finds a good chance of getting a NIT securing rank, if his/her score is more than 420 **The cut off for the complete paper is expected to be 320 marks.**

The breakup of the questions as per difficulty level was as follows

Physics: AIEEE 2004

S.No	Topic / Topics	Number of Questions
1.	Vectors	1
2.	Dimensions	1
3.	Kinematics	5
4.	Work Power Energy and applications	4
5.	Rotational Mechanics	2
6	SHM	5
7	Sound	1
8	Heat & Thermodynamics	3
9	Heat Transfer	2
10	Electrostatics	4
11	Current Electricity	7
12	Magnetic effects of current, EMI, AC	6
13	Electro magnetic induction	4
14	Modern Physics	11
15	Ray optics and photometry	3
16	Wave optics	1
17	Laws of motion and friction	3
18	Gravitation	4
19	Properties of matter	4
20	Magnetism	2
21	Heating and chemical effects	2
	Total	75

Chemistry: AIEEE 2004

S.No	Topic / Topics	Number of Questions
1.	Chemical Thermodynamics	2

2.	Atomic Structure and Chemical Bonding	10
3.	Liquid Solutions	4
4.	Organic Chemistry of Functional Group I	11
5.	Organic Chemistry of Functional Group II	4
6	Chemistry of Representative Elements-I	3
7	Chemistry of Representative Elements-II	4
8	Biochemistry and environmental chemistry	4
9	Electrochemistry	6
10	Ionic equilibrium and Chemical Equilibrium	5
11	Coordination Compounds an Organometallics	6
12	Chemical Kinetics	2
13	Transition elements	3
14	Periodic table	2
15	Stoichiochemistry and Redox reaction	2
16	Gaseous State	2
17	Solid state	1
18	Nuclear chemistry	2
19	Purification and characterizations	2
	Total	75

Mathematics: AIEEE 2004

S.No	Topic / Topics	Number of Questions
1.	Matrices and Determinants	3
2.	Vectors	5
3.	3 D co-ordinate Geometry	4
4.	Circle	4
5.	Quadratic Equation and Expression	3
6	Progressions	2
7	Binomial Theorem	3
8	Complex Number	3
9	Probability	3
10	Functions	4
11	Limit and continuity of a function	2
12	Application of Derivative	4
13	Definite and indefinite Integral	7
14	Straight Line	4
15	Parabola	1
16	Ellipse	1
17	Hyperbola	0
18	Differential Equation	2
19	Area Under The Curve	1
20	Trigonometry	3
21	Differentiation	2
22.	Set and relation	1
23	Permutation and combination	2
24	Mathematical induction	1
25	Exponential and logarithmic series	1
26	Height and Distance	1
27	Statics	3
28	Dynamics	3
29	Statistics	2
	TOTAL	75