

AIEEE 2008 Analysis

This year students had it quite an easy AIEEE paper this year. The format of a single paper test was retained. The number of questions were reduced per section to 35 from 40 last year. This made it a paper of 105 questions to be attempted in 3 hours. The uniform marking scheme was stuck to this year as well. Each question, irrespective of the subject, carried 3 marks. The negative marking was -1 for every incorrect answer. Total marks were 315.

All the three papers could be termed moderate in level of difficulty.

There were a few firsts for AIEEE. In Maths and Physics “Assertin – Reasoning “ type questions have appeared for the first time. These questions were introduced into the JEE a couple of years back. In addition Physics also saw grouped questions which were based on a paragraph that was given. These are the only questions that could be termed as “surprises” of AIEEE this year. One other surprise. There were two questions in Physics that had an error.

The significant time pressure that one witnessed in the past years has been dramatically reduced. But nevertheless, the strategy to ace this test depended on keeping one’s cool and identifying the simpler questions to attempt first before moving to the more difficult questions, which weren’t many. As usual, better utilization of time would result in better marks. So, the constraining factor was once again time, and not level of difficulty. The topic-wise breakup for each subject is given below. The table also compares this years distribution with respect to last year’s to give an idea of the shift in the paper.

Mathematics

Topic	2008	2007
Sets, Relations and Functions	2	1
Limits, Continuity & Differentiability	1	2
Application of Derivatives	2	4
Indefinite Integrals, Definite Integrals & Area under the Curve	3	3
Cartesian coordinates & Straight Line	1	3
Circles	1	1
Conics	2	2
Quadratic Equations, Inequalities, Progressions	3	2
Complex Numbers	1	1
Binomial Theorem, Exponential & Logarithmic Series	1	3
Permutation & Combination	2	1
Probability	2	2
Vectors	2	2
3-D Coordinate Geometry	2	3
Differential Equations & Properties of Triangles	2	2
Trigonometric Ratios, Equations, & Inverse Circular Function	1	1
Heights and Distances	1	1
Matrices & Determinants	3	2
Mathematical Logic	2	
Statics & Dynamics		3
Statistics	1	1
	35	40

Physics

Topic	2008	2007
Units, Dimensions, Errors, Experiments	5	
Kinematics	1	2
New ton's laws and friction		1
Work, Power & Energy	1	1
System of particles	3	1
Gravitation, Rotational mechanics	2	3
Properties of Matter	3	
SHM, Oscillations		4
Mechanical Waves and Sound	3	1
Ray Optics , Wave Optics	5	2
Heat and Thermodynamics	1	4
Electrostatics	2	6
Current Electricity	2	1
Magnetism , Magnetic effects of current	2	5
EMI , AC and EM waves	1	2
Modern Physics	4	7
	35	40

Chemistry

Topic	2008	2007
Atomic Structure and Classification	1	1
Chemical Bonding	2	3
Stoichiometry	1	2
States of Matter	1	1
Chemical & Ionic Equilibrium	4	3
Chemical Kinetics & Nuclear Chemistry	1	4
Chemical Thermodynamics	2	3
Solutions	2	2
Electrochemistry	1	2
General Organic Chemistry + Functional Group I	9	9
Organic Chemistry – Functional Group II	1	1
Organic Chemistry – Functional Gp III		1
Chemistry of Representative Elements	5	4
Transition Elements	1	3
Coordination Compounds & Organometallics	2	
Surface Chemistry	1	
Biomolecules	1	1
	35	40

Question grading

	Maths	Physics	Chemistry
Excellent Score in the subject	60 – 65	55- 60	65 – 70
Difficulty Level			
Easy (Direct Simple)	14	13	16
Moderate	15	11	14
Difficult	6	11	5

Our overall verdict is that AIEEE 2008 was of slightly lower level of difficulty than AIEEE 2007. A student getting 180 plus marks can expect a national rank of sub - 10000 .