AIEEE 2009 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 was reduced per section to 30 from 35 last year. This
Made it a paper of 90 questions to be attempted in 3 hours. The marking scheme was
Changed this year. Each section of the paper was of 144 marks means a total of 432 marks.
Out of 30 questions in each section 24 questions carried 4 marks with negative marks and 6 question
of 8 marks with negative marking.

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

There were a few firsts for AIEEE. In Maths and Physics "Assertion – 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.

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 year's distribution with respect to last year's to give an idea of
The shift in the paper.

Mathematics

Topic	2008	2009
Sets, Relations and Functions	2	2
Limits, Continuity & Differentiability	1	1
Application of Derivatives	2	3
Indefinite Integrals, Definite Integrals & Area under the Curve	3	2
Cartesian coordinates & Straight Line	1	1
Circles	1	1
Conics	2	3
Quadratic Equations, Inequalities, Progressions	3	3
Complex Numbers	1	1
Binomial Theorem, Exponential & Logarithmic Series	1	1
Permutation & Combination	2	1
Probability	2	2
Vectors	2	2
3-D Coordinate Geometry	2	1
Differential Equations & Properties of Triangles	2	1
Trigonometric Ratios, Equations, & Inverse Circular Function	1	1
Heights and Distances	1	
Matrices & Determinants	3	2
Mathematical Logic	2	1
Statics & Dynamics		
Statistics	1	1
	35	30

Physics

Topic	2008	2009
Units, Dimensions, Errors, Experiments	5	1
Kinematics	1	2
New ton's laws and friction		
Work, Power & Energy	1	1
System of particles	3	1
Gravitation, Rotational mechanics	2	1
Properties of Matter	3	1
SHM, Oscillations		1
Mechanical Waves and Sound	3	2
Ray Optics, Wave Optics	5	3
Heat and Thermodynamics	1	5
Electrostatics	2	3
Current Electricity	2	1
Magnetism, Magnetic effects of current	2	2
EMI , AC and EM waves	1	1
Modern Physics	4	5
	35	30

Chemistry

Topic	2008	2009
Atomic Structure and Classification	1	3
Chemical Bonding	2	1
Stoichiometry	1	
States of Matter	1	1
Chemical & Ionic Equilibrium	4	1
Chemical Kinetics & Nuclear Chemistry	1	1
Chemical Thermodynamics	2	2
Solutions	2	2
Electrochemistry	1	1
General Organic Chemistry + Functional Group I	9	5
Organic Chemistry – Functional Group II	1	2
Organic Chemistry – Functional Gp III		1
Chemistry of Representative Elements	5	3
Transition Elements	1	2
Coordination Compounds & Organometallics	2	2
Surface Chemistry	1	1
Biomolecules	1	2
	35	30