

## AIEEE 2006 Analysis

The AIEEE 2006, comprising a single paper had 40 questions in Mathematics and 55 questions each in Physics and Chemistry, making it a total of 150 questions to be attempted in 180 minutes. The overall level of difficulty was lower than last year's paper. Maximum marks for each subject was 180, and the total was 540 marks.

Subject	Questions	Marks/Q	Total Marks
Mathematics	10	3	30
	20	4.5	90
	10	6	60
Physics	10	1.5	15
	25	3	75
	20	4.5	90
Chemistry	10	1.5	15
	25	3	75
	20	4.5	90
Total	150		540

As compared to the AIEEE 2005, this year's paper saw a reduction in the number of difficult questions from 25% last year to about 15% this year. About 40% of the questions were fairly simple or straightforward requiring direct use of formula/result or law. The balance questions were of moderate level of difficulty.

Physics

The coverage was as follows.

Time Duration	75 min	75 min
Units, Dimensions	1	1
Kinematics	7	1
New ton's laws and friction	4	2
Work, Power & Energy	3	4
System of particles	3	2
Gravitation, Rotational mechanics	5	3
Properties of Matter	2	1
SHM, Oscillations	4	3
Mechanical Waves and Sound	2	2
Optics	6	1
Heat and Thermodynamics	5	4

Electrostatics	5	3
Current Electricity	8	7
Magnetic effects of current and earth's magnetism	5	3
EMI , AC and EM waves	5	5
Modern Physics	10	13
	75	55

#### Cutoff Score for Physics

Max Marks	180
Cut - off score for 12,000 AIR	70-75
Difficulty Level	
Easy ( Direct Simple)	19
Moderate	23
Difficult	13

#### Chemistry

Coverage in Chemistry was as follows.

Time Duration	75 min	60 min
Topic	2005	2006
Atomic Structure and Classification	4	5
Chemical Bonding	4	5
Stoichiometry	2	2
States of Matter	2	1
Chemical & Ionic Equilibrium	4	3
Chemical Kinetics & Nuclear Chemistry	5	3
Chemical Thermodynamics	5	4
Solutions	4	2
Electrochemistry	3	3
General Organic Chemistry	10	10
Organic Chemistry - Functional Gp II	5	3
Organic Chemistry - Functional Gp III	7	4
Chemistry of Representative Elements	9	4

Transition Elements	3	1
Coordination Compounds & Organometallics	5	4
Surface Chemistry	2	1
Qualitative Analysis	1	
	75	55

#### Cut of for Chemistry

Max Marks	180
Cut - off score for 12,000 AIR	70-80
Difficulty Level	
Easy ( Direct Simple)	18
Moderate	30
Difficult	7

#### Mathematics

Coverage in Chemistry was as follows.

Time Duration	75 min	60 min
Topic	2005	2006
Sets, Relations and Functions	3	1
Limits, Continuity & Differentiability	4	2
Application of Derivatives	6	4
Definite Integrals & Area under the Curve	6	4
Cartesian coordinates & Straight Line	3	3
Circles	4	2
Conics	4	2
Quadratic Equations & Progressions	5	3
Complex Numbers	3	2
Binomial Theorem, Exponential & Logarithmic Series	4	2
Permutation & Combination	2	1
Probability	3	0
Vectors	6	4
3-D Coordinate Geometry	5	1

Differential Equations & Properties of Triangles	4	1
Trigonometric Ratios, Equations, & Inverse Circular Function	2	3
Matrices & Determinants	5	2
Statics & Dynamics	5	1
Statistics	1	2
	75	40

Cut of for Mathematics

Max Marks	180
Cut - off score for 12,000 AIR	70-80
Difficulty Level	
Easy ( Direct Simple)	18
Moderate	17
Difficult	5

AIEEE 2006 was easier than AIEEE 2005, but was certainly not a cakewalk. A student getting between 200 and 220 marks overall can expect a national rank of about 10000 or so, which of course is decent enough for getting a seat at a reasonably