

# Insight Into AIEEE 2009

All India Engineering Entrance Exam (AIEEE) added yet another feather to its cap by becoming once again the biggest entrance exam in the world to be conducted in a single day. A total of 9,62,119 students sat for the AIEEE 2009. In 2008, the number of aspirants was 8,20,000, so there was a jump of 17.3% in number of aspirants in the year 2009. The exam was conducted at 1,460 test centres in India and abroad in nearly 85 cities.

AIEEE offers a total of 24,891 seats across various affiliated engineering institutes in India. The participating colleges include 20 NITs, 5 IITs, 16 Self-financed Institutes, 9 Central/State government colleges and also State colleges in States like Haryana & Uttarakhand.

Like IITs, this year's AIEEE also got the better of the playing with the entrance exam pattern. This year's AIEEE paper, though on the lines of last year's paper, had some interesting changes. Firstly, the numbers of questions were different from those of last year. It had 30 questions in each of the subjects i.e. Physics, Chemistry and Mathematics. Though the number of questions asked was less than that of last year, the overall composition of the paper coincided with the past year's pattern.

Secondly, the marks allocation per question changed from that of last year. Question No. 1 to 24 were all 4 mark-questions with 1/4<sup>th</sup> negative marking. Last 6 questions, i.e. from Question No. 25 to 30 were of 8 marks each with -2 negative marking for any of these questions marked wrong. This pattern was followed in all the three subjects. The total weightage of the paper was of 432 marks.

If we look at the Mathematics portion, the questions asked in Mathematics sections of AIEEE 2009, were difficult than those of last year. In Mathematics, Calculus, Algebra and Coordinate Geometry portions dominated with each contributing



**Mr. J.C. Chaudhry**  
Managing Director  
Aakash IIT-JEE

27%, 27% & 17% questions, respectively towards the overall composition. Additionally, Statistics & Probability formulated a next significant part of the paper with each contributing 7% to 10% of the overall composition of the Paper. Remaining part of the Paper was supplemented by questions on Trigonometry and 3D-Vectors. The weightage of questions asked from Class XII portion of the AIEEE syllabus was at 47%, and that of Class XI portion was at 53%, again reemphasizing on the importance of Class XI for competitive exam preparation.

With respect to Chemistry, this year's AIEEE Chemistry paper was simpler than previous year's paper. If a student had a sound grounding in Chemistry concepts then he could have easily scored well above 80% marks. Physical Chemistry played the pivotal role with 37% questions coming from this part. Organic and Inorganic Chemistry contributed 33% & 30%, respectively towards the overall composition. If we look at the divide of Class XI and XII portions, interestingly the XII Class portion constituted 60% of the questions. This was a goodwill sign from paper setters for the aspirants. Also, in Chemistry, this year there were not any questions on the Assertion & Reason pattern.

Finally, with respect to Physics, almost 1/5<sup>th</sup> of the questions were asked from Mechanics. The level of the questions asked in Physics this year was average, though there were some grouped questions to test the nerves of the students. The topics like Electricity, Heat & Thermodynamics, Modern Physics had good representation in the paper. Other topics which showed up in the paper were Magnetism, Optics, Units & Measurements and Waves. 53% of the questions were from Class XII portion, whereas Class XI contributed 47%.

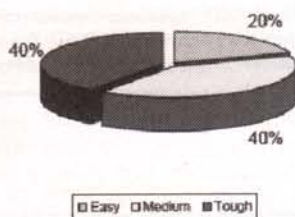
Topic-wise detailed analysis of AIEEE 2009 with respect to the number of questions and the marks weightage is as follows:

**Analysis of MATHEMATICS Portion of AIEEE 2009**

	XII	XI	XII	XI	XI	XII	XI	XII	XI	XII	Total
	Calculus	Trigo-nometry	Algebra (XII)	Algebra (XI)	Coordinate Geometry	Pro-bability	Statistics	3-D (XII)	3-D (XI)	Vectors	
Easy	2	0	0	1	0	1	1	0	1	0	6
Medium	3	1	1	2	3	0	1	0	0	1	12
Tough	3	0	1	3	2	1	1	1	0	0	12
Total	8	1	2	6	5	2	3	1	1	1	30
	XI syllabus		16	XII syllabus		14					

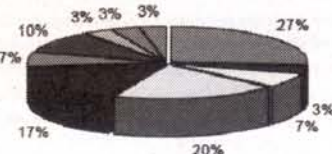


**Distribution of Level of Questions in Physics**



- Calculus
- Trigonometry
- Algebra (XII)
- Algebra (XI)
- Coordinate Geometry
- Probability
- Statistics
- 3-D (XII)
- 3-D (XI)

**Topic wise distribution in Physics**

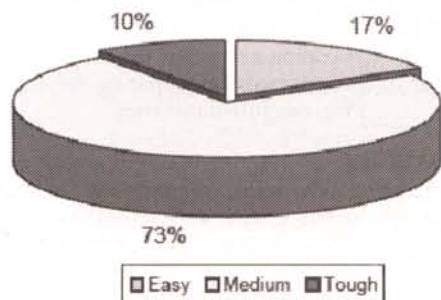


### Analysis of CHEMISTRY Portion of AIEEE 2009

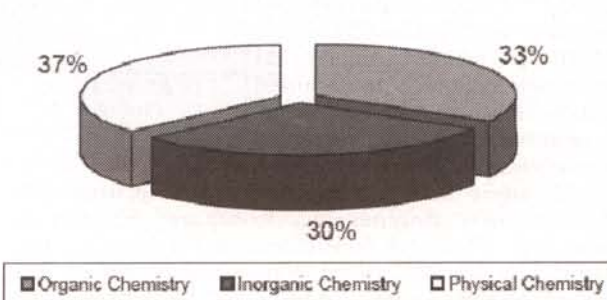
	Organic Chemistry	Inorganic Chemistry	Physical Chemistry	Total
Easy	3	0	2	5
Medium	7	6	9	22
Tough	0	3	0	3
Total	10	9	11	30

XI syllabus	14	XII syllabus	21
-------------	----	--------------	----

**Distribution of Level of Question in Chemistry**



**Topic wise distribution in Chemistry**

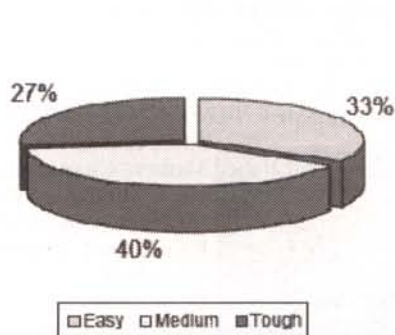


### Analysis of PHYSICS Portion of AIEEE 2009

	XII	XI	XII	XI	XII	XII	XI	XI	Total
	Electricity	Heat & Thermodynamics	Magnetism	Mechanics	Modern Physics	Optics	Unit and Measurements	Waves	
Easy	2	2	0	2	2	2	0	0	10
Medium	2	2	2	2	2	0	1	1	12
Tough	1	1	1	2	1	1	0	1	8
Total	5	5	3	6	5	3	1	2	30

XI syllabus	14	XII syllabus	16
-------------	----	--------------	----

**Distribution of Level of Questions in Physics**



- Electricity
- Heat & Thermodynamics
- Magnetism
- Mechanics
- Modern Physics
- Optics
- Unit and Measurements
- waves

**Topic wise distribution in Physics**

