



Rao IIT Academy

Symbol of Excellence and Perfection

JEE | MEDICAL-UG | BOARDS | KVPY | NTSE | OLYMPIADS | MHT-CET

JEE ADVANCED 2017 PAPER ANALYSIS



Head Office: RAO EDUSOLUTIONS PVT. LTD., A113, 1st Floor, Boomerang, Near Chandivali Studio
Chandivali, Andheri (E), Mumbai – 400072

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GENERAL OVERVIEW

- ❖ **JEE Advanced 2017 Exam Date:** 21st May 2017
- ❖ **Subject:** Physics, Chemistry & Mathematics
- ❖ **Mode** – Offline. Paper 1: 9.00 AM to 12.00 PM
Paper 2: 2.00 PM TO 5.00 PM

- ❖ Paper – 1
- ✓ Duration – 3 Hours
- ✓ Total Marks – 183 (61 Marks each Subject)
- ✓ Total Questions – 54 Questions (18 -Questions from each subject)
- ✓ Paper Pattern -

Section	Question Type	NO. of Ques.	Full Marks	Partial Marks	Negative Marks	Maximum Marks of the Section
1	Multiple Correct Choice Answers	7	+4	+1	-2	28
2	Single Digit Integer Type Answers	5	+3	-	0	15
3	Three Columns Match-Matrix	6	+3	-	-1	18

- ❖ Paper – 2
- ✓ Duration – 3 Hours
- ✓ Total Marks – 183 (61 Marks each Subject)
- ✓ Total Questions – 54 Questions (18-Questions from each subject)
- ✓ Paper Pattern -

Section	Question Type	NO. of Ques.	Full Marks	Partial Marks	Negative Marks	Maximum Marks of the Section
1	Single Correct Choice Answers	7	3	-	-1	21
2	Multiple Correct Choice Answers	7	4	1	-2	28
3	Paragraph Type	4	3	-	0	12

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Physics Analysis

Paper -1		Paper -2	
Topics	Marks	Topics	Marks
Heat & Thermodynamics	17	Current Electricity	7
Magnetism	9	Friction	7
Electromagnetic Induction + AC	8	Capacitors	6
Ray Optics	7	Circular Motion	6
Waves & Sound	7	Electrostatics	4
Modern Physics	6	Magnetism	4
System of Particles	4	Optical Instruments	4
Fluids, Surface Tension, Viscosity	3	Rotational Motion	4
		Wave Optics	4
		Centre of Mass	3
		Electromagnetic Waves	3
		Errors & Experiments	3
		Gravitation	3
		Vectors	3

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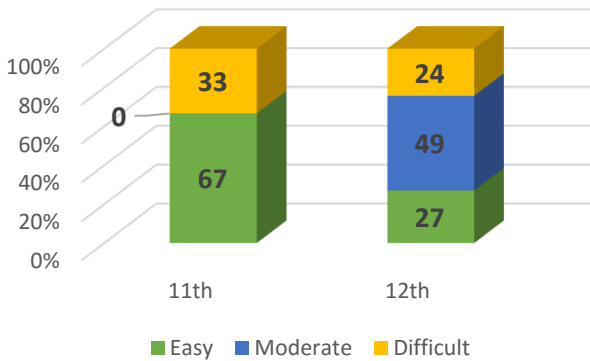
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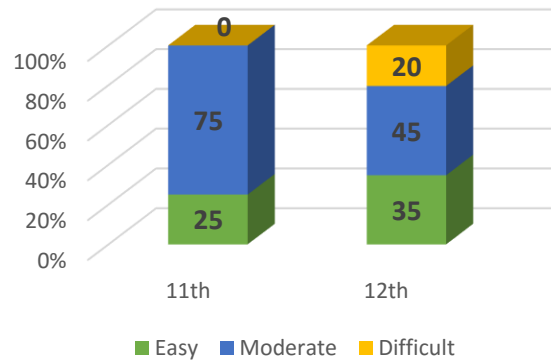


Physics Analysis

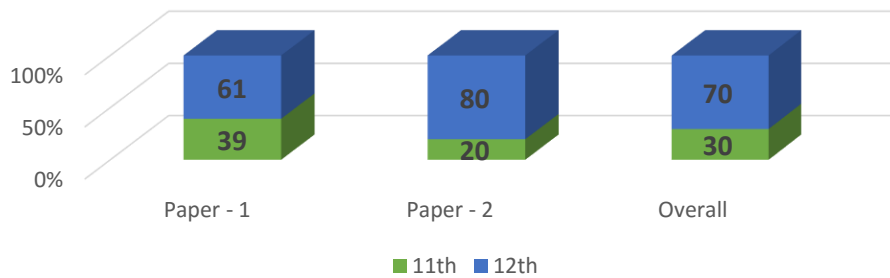
Paper - 1 Class-wise Distribution



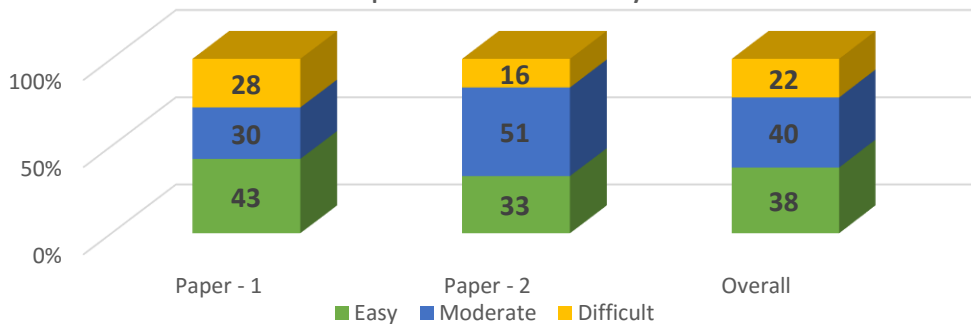
Paper-2 Class-wise Difficulty



Class-wise Distribution



Paper-wise Difficulty



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Chemistry Analysis

Paper -1		Paper -2	
Topics	Marks	Topics	Marks
Chemical Bonding	10	P-Block	13
Atomic Structure	9	Alkyl Halides	4
Carboxylic Acids & Amines	6	Carbonyl Compounds	4
Alkenes & Isomerism	4	Chemical Equilibrium	4
Co-ordination & Qualitative Analysis	4	Chemical Kinetics	4
Liquid Solutions	4	Periodic Properties	4
Nomenclature	4	Surface Chemistry	4
P-Block	4	Alcohols & Phenols	3
Thermodynamic	4	Amines	3
Electrochemistry	3	Aromatic Compounds	3
GOC	3	D-Block	3
Hydrocarbons	3	Electrochemistry	3
Solid State	3	GOC	3
		Solutions	3
		Thermodynamics	3

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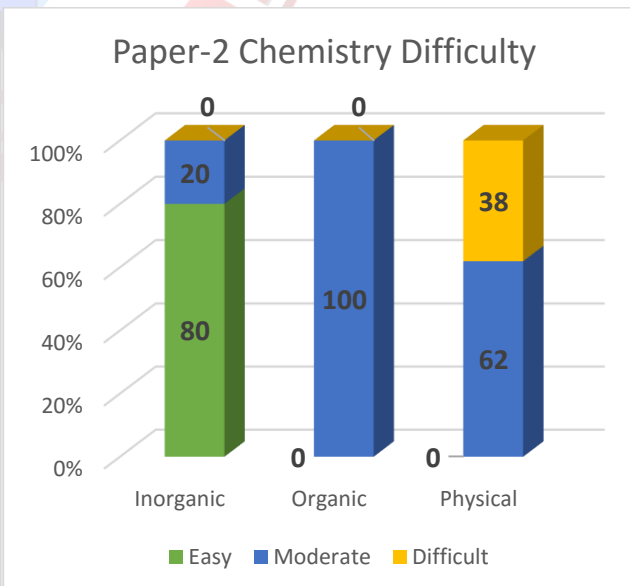
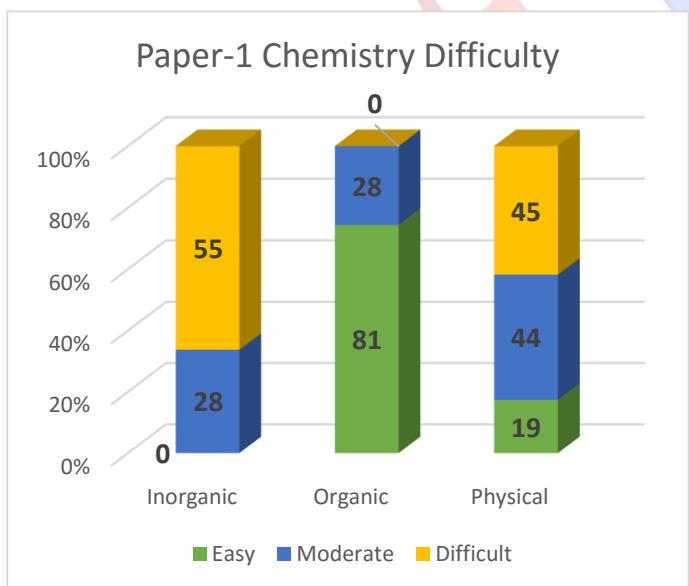
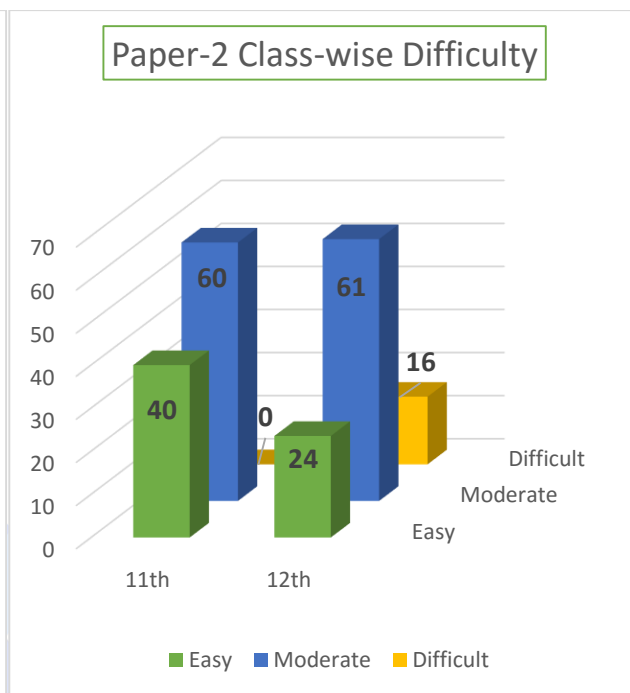
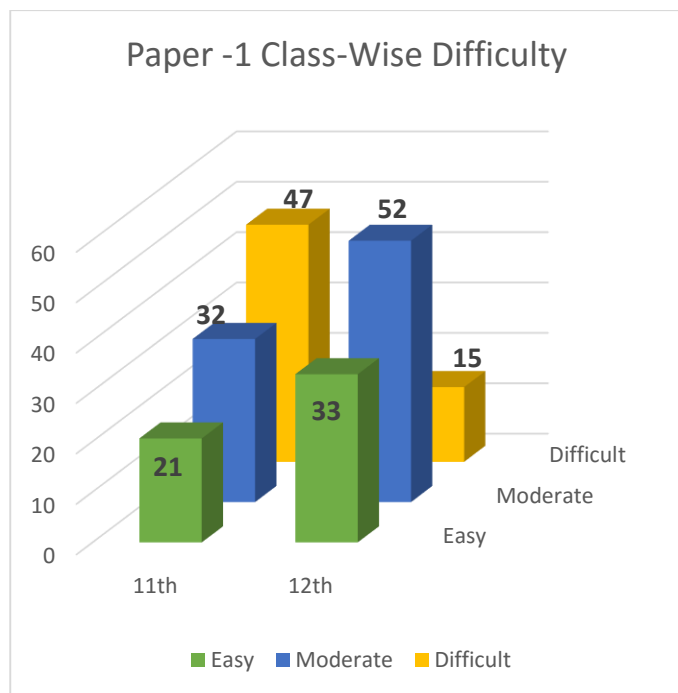
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Chemistry Analysis

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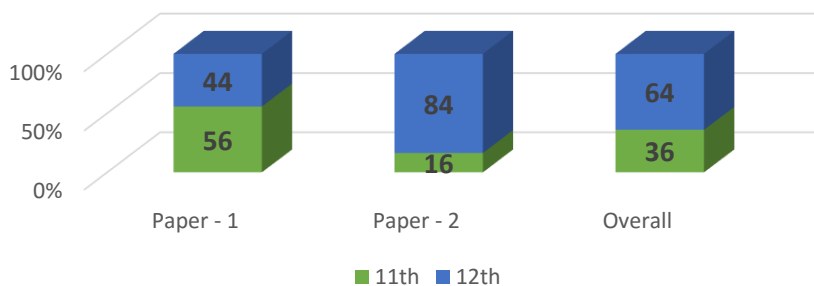
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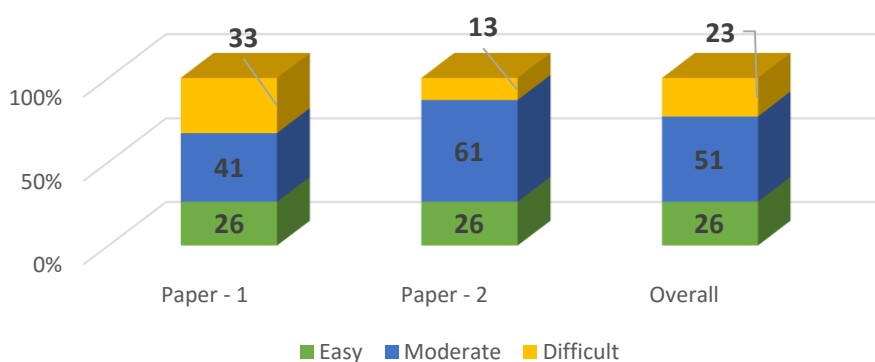


Chemistry Analysis

Class-wise Distribution



Paper-wise Difficulty



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Mathematics Analysis

Paper -1		Paper -2	
Topics	Marks	Topics	Marks
Conics	17	Vectors	10
Application of Derivatives	9	Matrices & Determinants	7
Matrices & Determinants	7	Application of Derivatives	7
AOD	4	Quadratic Equations	6
Complex Numbers	4	Differential Equation	4
Limits & Differentiability	4	Pair of St. Lines	4
Probability	4	Probability	4
Circles	3	Permutation & Combination	4
Definite Integration	3	Area under Curve	3
Permutation & Combination	3	Definite Integration	3
Sequence & Series	3	Limit & Differentiability	3
		Indefinite Integration	3
		Trigonometric Ratio	3

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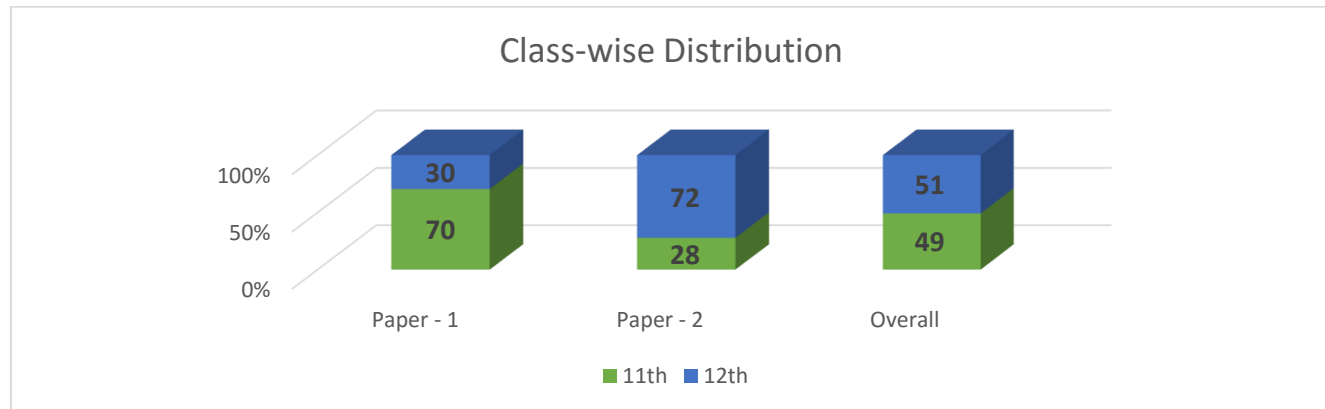
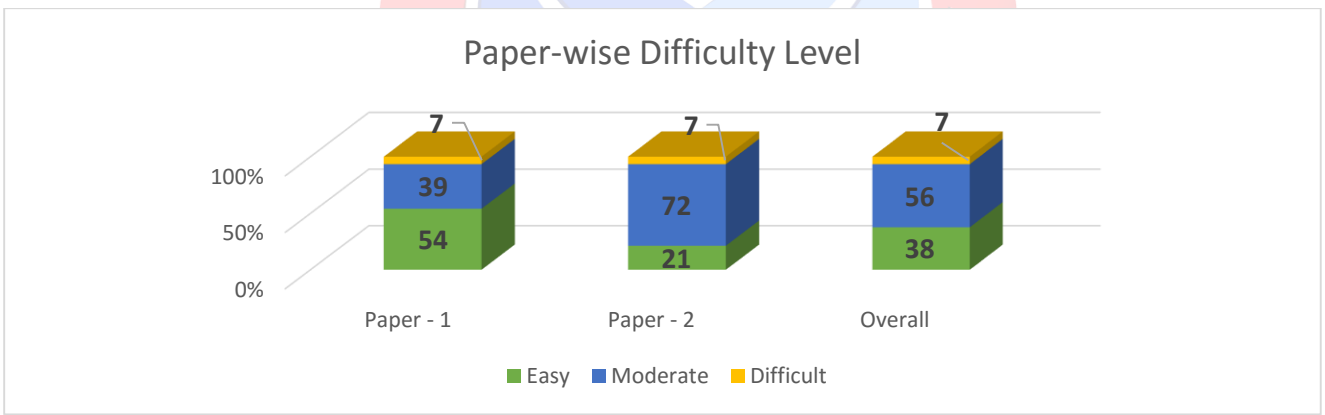
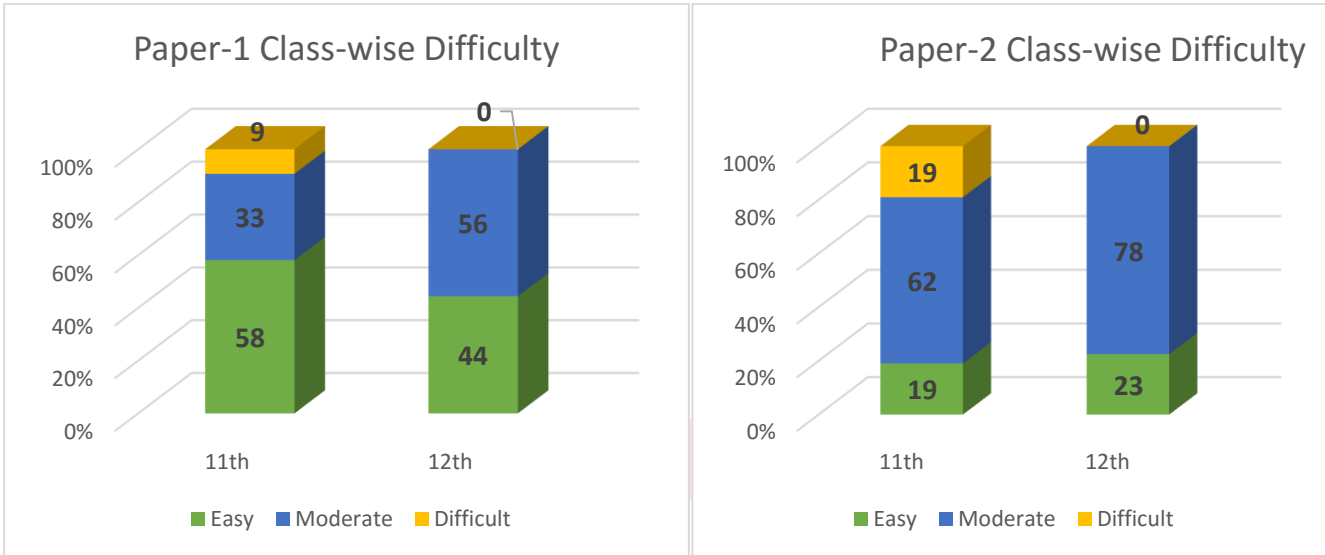
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Mathematics Analysis

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Mathematics Analysis

Paper 1 –

1. More towards Basic concepts in comparison to last year.
2. One question from matrices is difficult. Most of the questions are easy and some moderate.
3. A new pattern is introduced having 3 columns matching which may be challenging for students in terms of pattern.
4. Total 8 questions from 11th and 10th questions form 12th class syllabus.
5. Most of the questions are conventional.
6. Paper is not lengthy and does not require deeper concepts of subjects.
7. Students with consistence hard work have good chance to score well.

Paper 2 –

1. Paper-2 is as per JEE Standards with few questions easy, mostly moderate and tricky and one question is difficult.
2. Mostly questions are from 12th class (5 from 11th and 13 from 12th)
3. Paper involved concepts above basics in many questions.
4. If we take care of domain, in one question involving concepts of I.T.F. and definite integration, no option is correct.
5. Some questions are error prone specially in one or more than one option correct type. Student could have taken benefit of partial scoring by avoiding lengthier options.
6. Student need to be conceptually strong & mentally taught to score in this paper.
7. Maths was not very lengthy but more time consuming in comparison to paper-1.
8. Paper-2 was tougher than paper-1.

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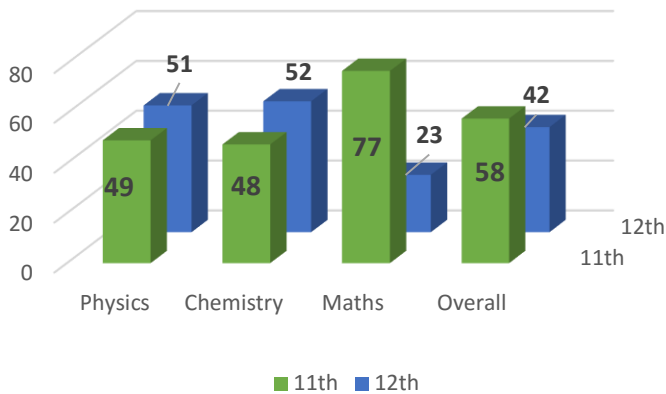
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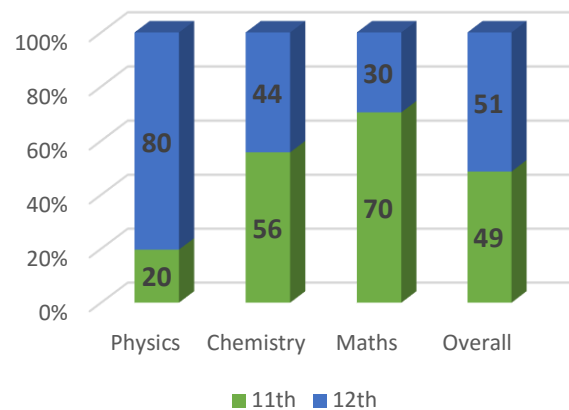
Overall Analysis

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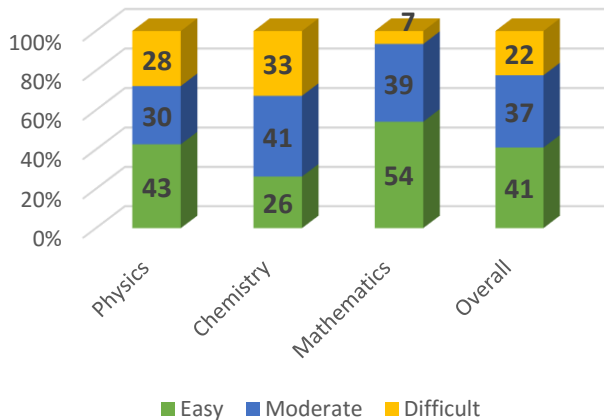
Paper 1 - Class-wise Distribution



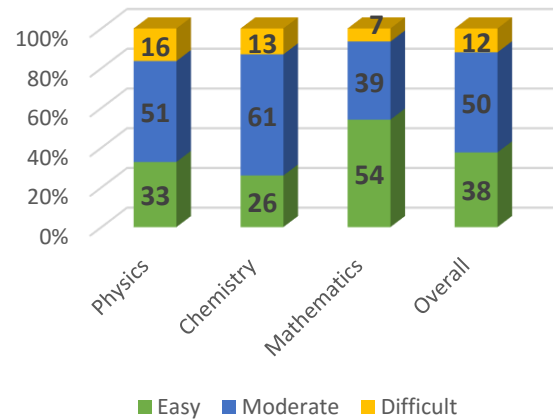
Paper-1 Class-wise Distribution



Paper-1 Subject-wise Difficulty



Paper-2 Subject-wise Difficulty



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Overall Analysis

- ❖ Expected Cutoff by RAO IIT Faculties and experts is 90 marks i.e. 25%.

Expected Rank vs Marks

Expected Rank	Expected Marks	Marks %
100	270	74%
300	238	65%
600	204	56%
1000	181	50%
2000	170	46%
3000	164	45%
5000	159	43%
7000	153	42%
Cut-off	90	25%

1. Total 366 marks. 2 papers with equal weightage of 61 marks each subject.
2. Both papers have partial marking but -2 marks for wrong answers in one section of paper.
3. Physics paper -1 is easy but paper -2 is difficult.
4. Chemistry- Physical chemistry is of difficult level, inorganic in having unconventional questions and organic is of easy type with 2 questions of moderate difficulty level.
5. Mathematics- Paper one is moderate and paper two is moderate to difficult.
6. Two questions in chemistry and one in mathematics will be bonus.
7. Cut off will go up in comparison to last year. 255 plus top 100. 294 plus top 10 and 90 marks will be the cut off in comparison to 75 last years.
8. " Students who were not comfortable in paper-2, should not be discouraged as that will be a common phenomenon pan India, Also I expect IITs will reward bonus credits for the 3 questions, 2- chemistry and 1- mathematics, both in paper-2, "

Vinay Kumar
MD & CEO
RAO IIT ACADEMY

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