



Rao IIT Academy

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

JEE MAIN 2017 PAPER ANALYSIS





GENERAL OVERVIEW

- ❖ **JEE Main 2017 Offline Exam Date:** 02nd April 2017
- ❖ **Subject:** Physics, Chemistry & Mathematics
- ❖ **Paper Pattern**
 - **Total No. of Questions:** 90
 - **Total Marks:** 360
 - **Time:** 180 minutes
 - **Question Type:** Multiple Choice Questions with one single correct answer.
 - **Marking Scheme**
 - +4 for each correct answer
 - -1 for each wrong answer
 - 0 for other cases.



RAO INTELLIGENCE SEARCH EXAMINATION (RISE)

9th April & 23rd April – Mumbai, Kota, Delhi-NCR, Pune, Silvasa, Vapi, Lucknow, Patna, Indore.
16th and 23rd April - Nagpur

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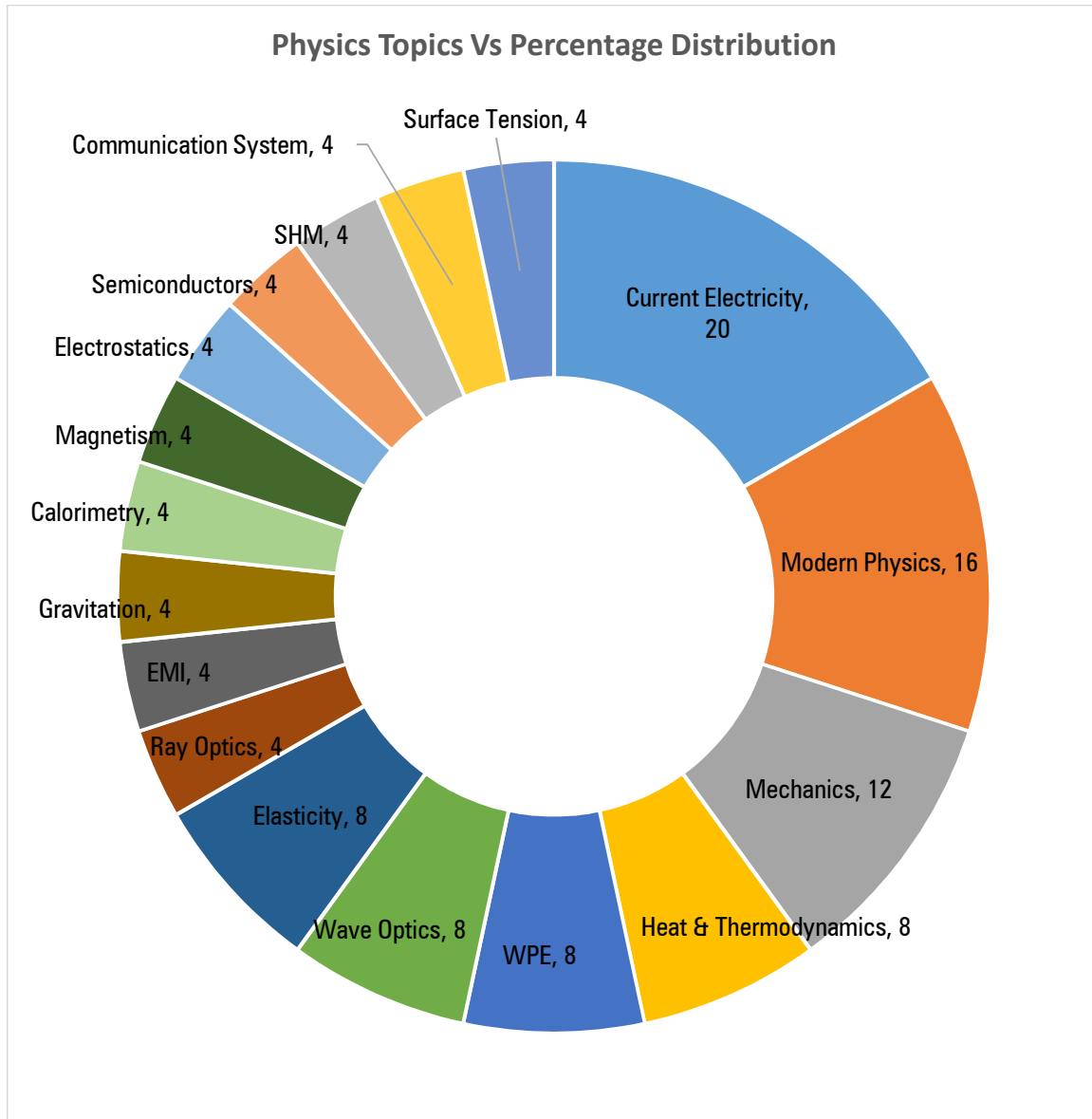
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Physics Analysis

JEE Main 2017 Paper Analysis – RAO IIT ACADEMY

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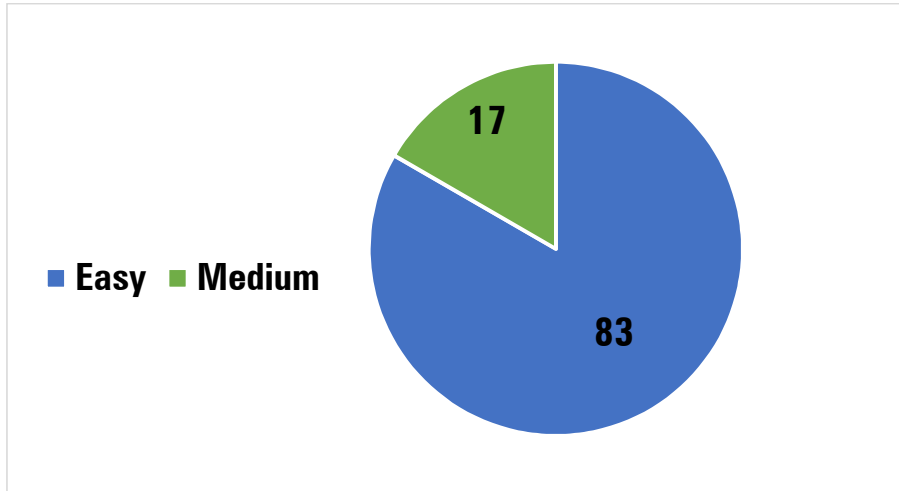
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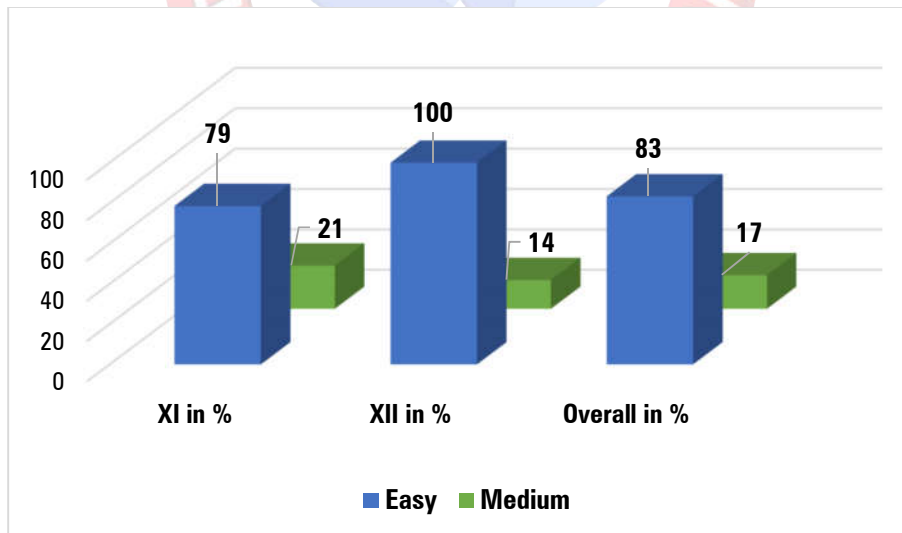


Physics Analysis

Difficulty Level vs Marks in %



CLASS WISE ANALYSIS



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Physics Analysis

Topic	Marks
Current Electricity	20
Modern Physics	16
Mechanics	12
Heat & Thermodynamics	8
WPE	8
Wave Optics	8
Elasticity	8
Ray Optics	4
EMI	4
Gravitation	4
Calorimetry	4
Magnetism	4
Electrostatics	4
Semiconductors	4
SHM	4
Communication System	4
Surface Tension	4

- Physics Questions of JEE Main 2017 are very much fundamental.
- All questions are NCERT based.
- 14 questions are given from XIth and remaining from XIIth, thus both and have almost equal weightage and equally important.
- 17% of questions paper was from Modern Physics, Semi-conductors and communication system.
- Overall Physics part is easy and easily solvable.

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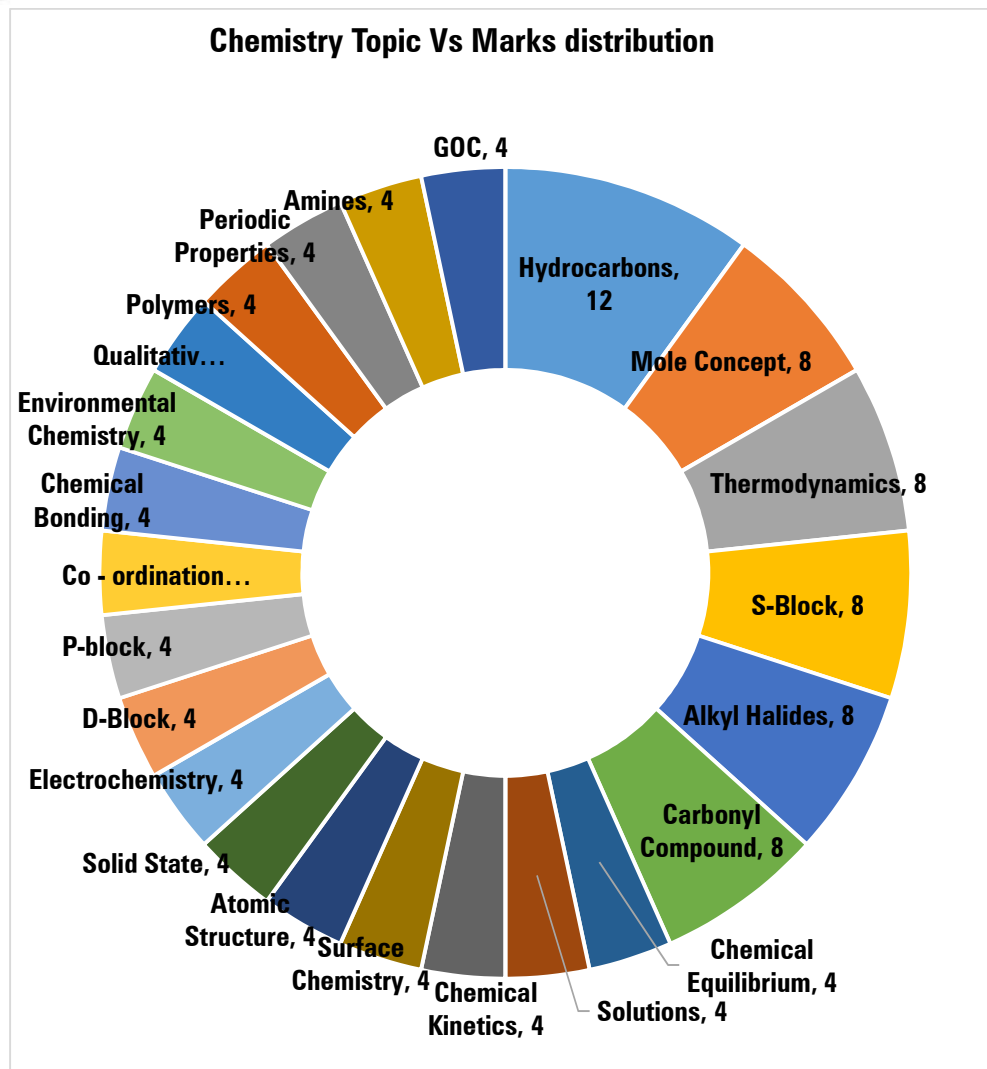
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Chemistry Analysis



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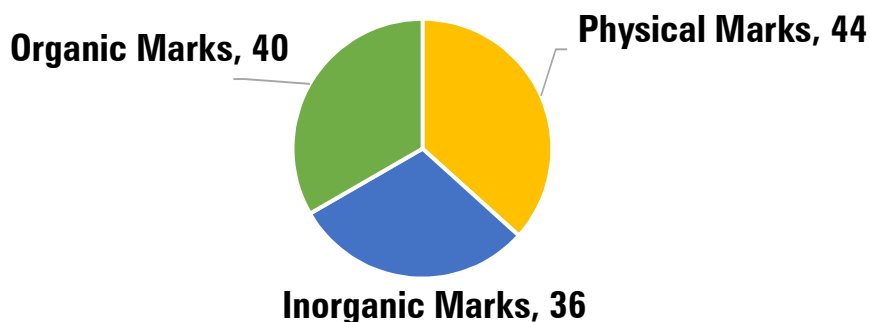
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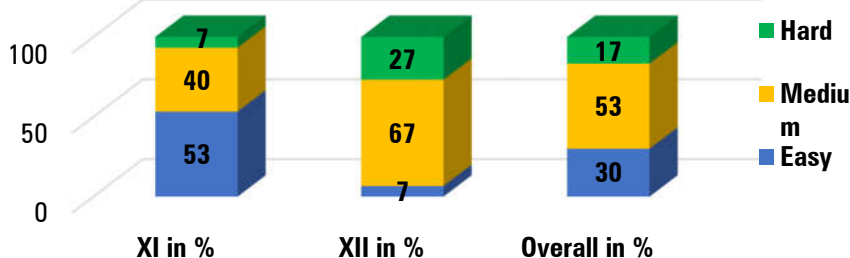


Chemistry Analysis

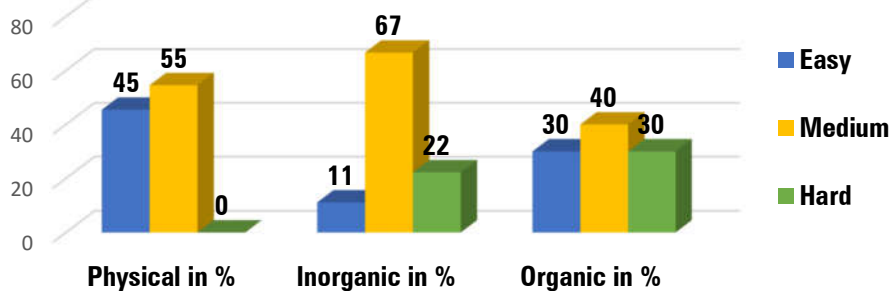
Marks Distribution in Physical/ Inorganic Chemistry



Difficulty Level vs Marks in %



Percentage of Marks Distribution in each Section



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Chemistry Analysis

Chemistry JEE Main 2017	
Topic	Marks
Hydrocarbons	12
Mole Concept	8
Thermodynamics	8
S-Block	8
Alkyl halides	8
Carbonyl Compound	8
Chemical Equilibrium	4
Solutions	4
Chemical Kinetics	4
Surface Chemistry	4
Atomic Structure	4
Solid State	4
Electrochemistry	4
D-Block	4
P-block	4
Co - ordination Compound	4
Chemical Bonding	4
Environmental Physics	4
Qualitative Analysis	4
Polymers	4
Periodic Properties	4
Amines	4
GOC	4

- 2017 Main offline chemistry paper is easier when compare with 2016 main offline paper except for 3-4 questions.
- Questions were mostly from NCERT Books. Equal Weightage for physical, organic and inorganic chemistry.
- In organic chemistry 8 questions are from XIIth and 2 questions from XIth.
- In Physical Chemistry 7 questions are from XIIth and 4 questions are from XIth.
- In organic chemistry, 4 questions are from XIIth and 5 questions are from XIth.
- Overall questions are mostly related to XIIth class topics.

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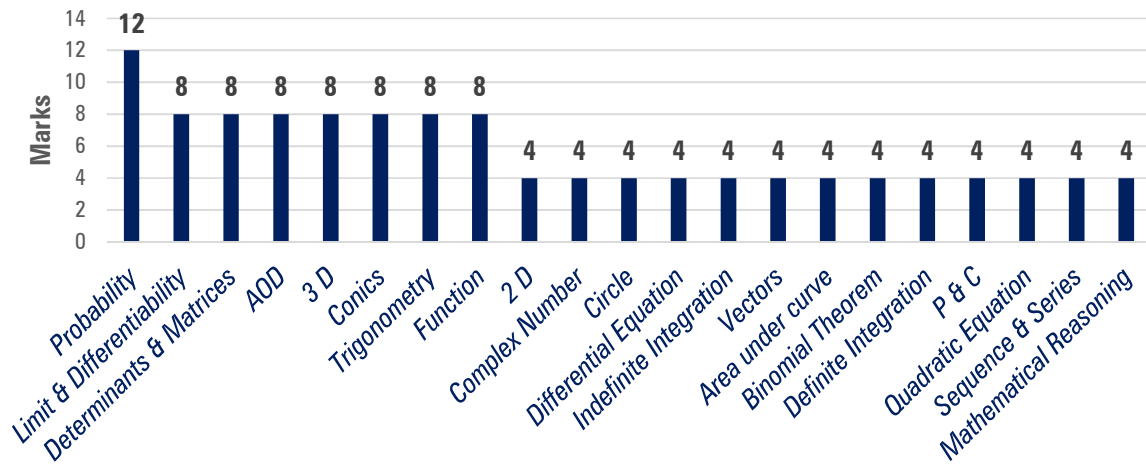
Mathematics Analysis

JEE Main 2017 Paper Analysis – RAO IIT ACADEMY

Mathematics JEE Main 2017	
Topic	Marks
Probability	12
Limit, Continuity & Differentiability	8
Determinants & Matrices	8
AOD	8
3 D	8
Conics	8
Trigonometry	8
Function	8
2 D	4
Complex Number	4
Circle	4
Differential Equation	4
Indefinite Integration	4
Vectors	4
Area under curve	4
Binomial Theorem	4
Definite Integration	4
P & C	4
Quadratic Equation	4
Sequence & Series	4
Mathematical Reasoning	4

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Mathematics Topic Vs Marks



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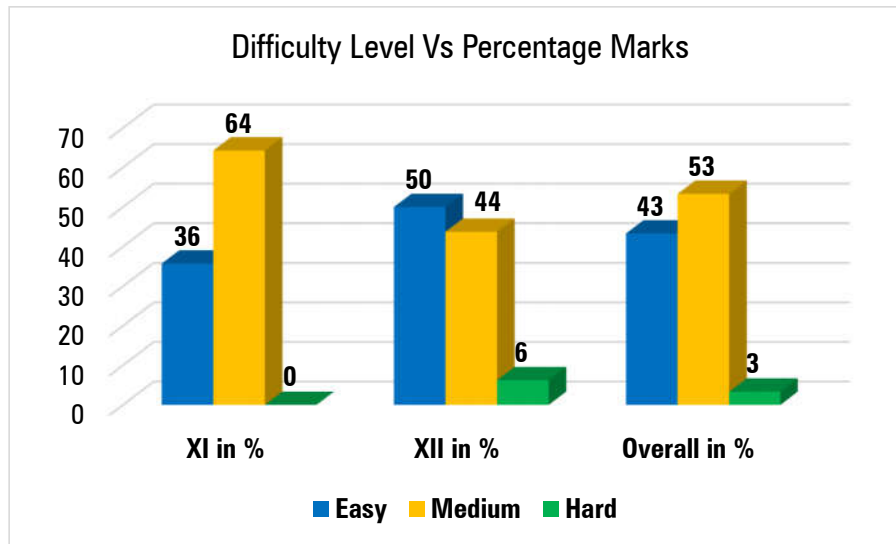
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Mathematics Analysis

Difficulty Level vs marks in %



- Level of Maths is similar to previous year but little bit on lengthy side.
- Students who understood that questions to skip will end up scoring better than those who do not prioritize which questions to skip.
- Probability got better weightage this time. Three questions have been asked which is against the trend (i.e. one question from each chapter mostly)
- Two questions were little bit error prone i.e. from determinant and were lengthy.
- Questions from quadratic, progression, straight line, circle and probability were little bit tricky.
- Two questions have come from the topics which are only in Mains but not in advanced (i.e. Height and distance, Mathematical reasoning)
- Thirteen questions were asked from 11th, sixteen questions from 12th and one question was mixed of 11th and 12th (NCERT syllabus).
- Total only four questions were asked from 2-D in spite of five questions in general.
- The options were not random but carefully designed. Most probable wrong answers were also included in the options, making the questions error prone.
- The question of finding radius of circle touching parabola had a mistake. One could only get the answer under obvious assumptions, however we believe the questions will not be given as bonus.
- The order of topics in which the questions were asked in Code A paper is more or less same as that of past years making it easier for students having Code A to identify questions from particular chapters.

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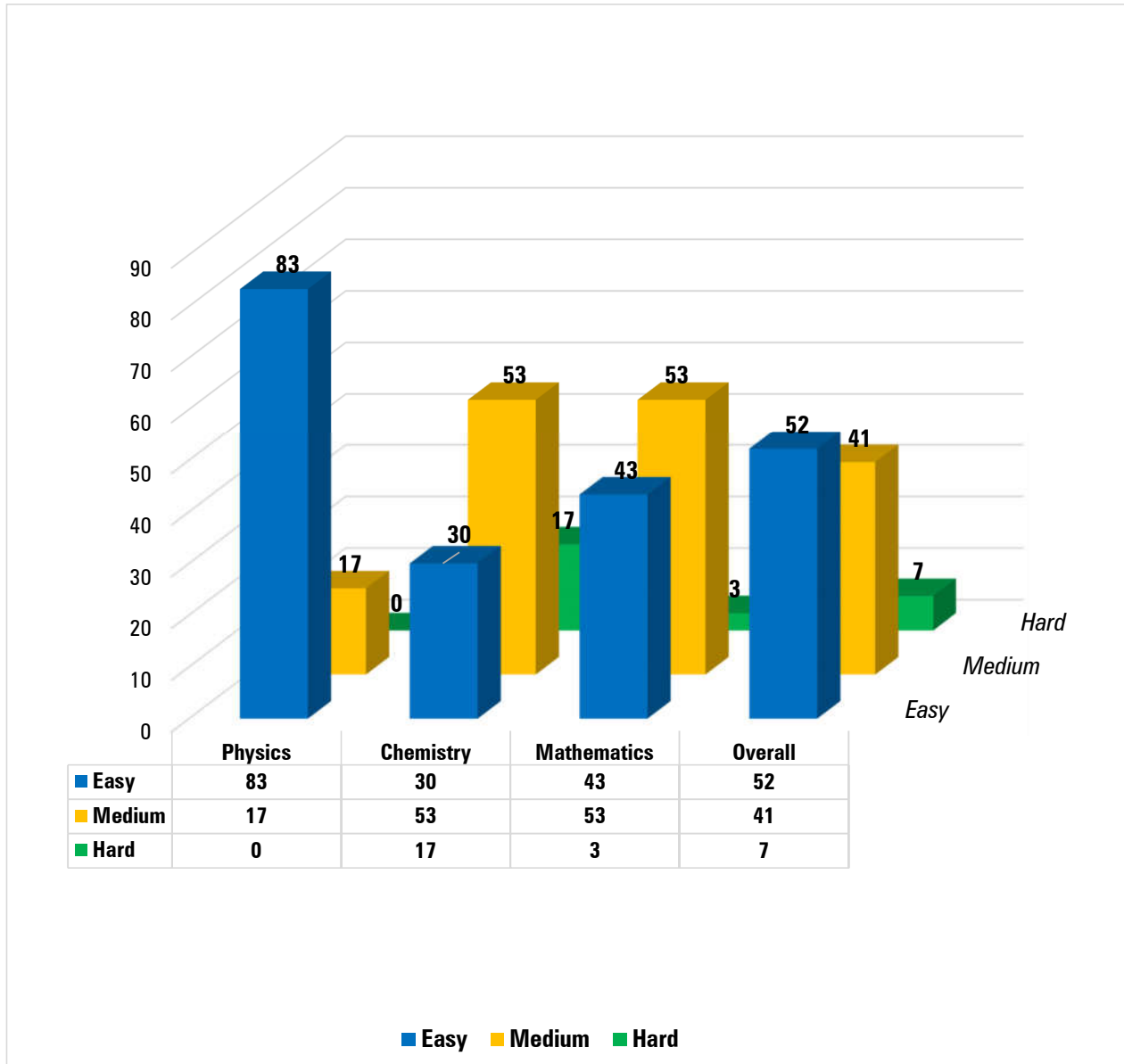
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Overall Analysis

Difficulty Level Vs Marks in %



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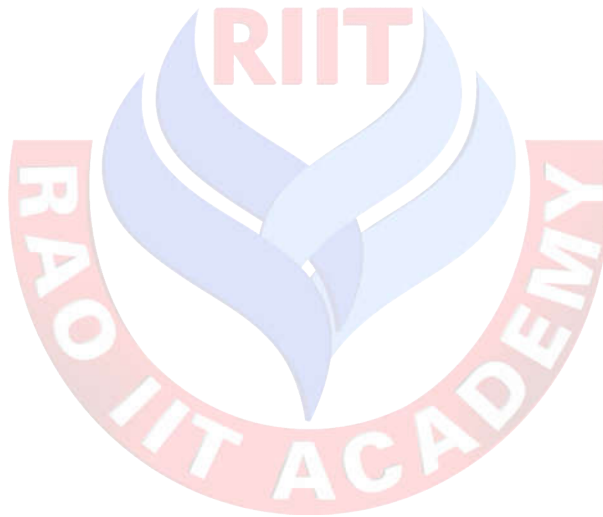
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Cut-off Marks to qualify for JEE Advanced 2017

- ❖ According to RAO IIT Faculties and experts , level of difficulty was moderate as compare to last year. Physics was the easy sections, Chemistry being moderate and Mathematics had few lengthy questions. Overall paper was bit lengthy as compared to 2016 Main Papers.
- ❖ **Expected Cutoff by RAO IIT Faculties and experts is 98 marks i.e. 27%.**



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