Introduction

- **JEE(Advanced) – success in 30 days** has been made by analyzing previous 5 years data of JEE(Advanced).
- Individual Subjectwise analysis of Physics, Chemistry & Mathematics has been done.
- As there are changes in paper pattern of JEE Advanced every year, we have mentioned a slide where you will get an idea how JEE Advanced paper pattern have been changed in the last 5 years.
<table>
<thead>
<tr>
<th>Sr. No.</th>
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<th>Opening Rank</th>
<th>Closing Rank</th>
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<tr>
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<td>Matrix Match Type (+3,1)</td>
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<td>2013 -&gt;</td>
<td>360</td>
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Physics Analysis

PHYSICS TOPIC VS TOPIC WISE MARKS DISTRIBUTION IN %

* Percentage has been calculated as (Physics topic marks / Total marks in Physics) x 100
Marks Distribution of Physics Topics

Average Marks of Last 5 Years in %

- Mechanics: 19%
- Modern Physics: 13%
- Ray & Wave Optics: 11%
- Heat & Thermodynamics: 9%
- Electrostatics & Capacitors: 9%
- SHM, Waves & Sound: 6%
- EMI & AC: 6%
- Fluids, Surface Tension, Viscosity: 4%
- Current Electricity: 5%
- Error & Experiments: 4%
- Units & Dimensions: 3%
- Gravitation: 3%
- Elasticity: 1%

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Tips for Physics by Rao IIT Experts

In JEE Main, If a student will be scoring less than 50 marks in Physics:

- Be selective in Solving Advanced Physics Questions.
- Always start solving questions of topics where you have already got correct answers in Mains Question Paper.
- Be strong in the concepts of Waves & Sound, Heat & Thermodynamics, Modern physics and Errors & Experiments.
- Solving questions from Mechanics, Electricity & Magnetism is of one's own decision.
- If somebody is good at Electrostatics, Current Electricity, Magnetism, System of particles, Rotation, then try to attempt the questions of these topics otherwise you can ignore them.
In JEE Main, If a student will be scoring between 60 – 90 marks in physics:

- You have already got moderate score and your NIT Admission may be confirmed at this level.
- Your Mains Score shows that you are good in at least half of the syllabus.
- Identify the concept where you were correct in the Mains question paper and revise them.
- Strengthen your concepts in the following: Wave & sound, Heat & Thermodynamics, Modern Physics, Errors and experiments
  These topics constitute 35% of the question paper.
- Identify the topics in Mechanics, Electricity, Magnetism which you have learnt in the past and revise them. But Our suggestion for you is to not learn new topics.
- If somebody feels that he/she is good at Mechanics, Electricity, Magnetism, then his/her first priority should be Simple Harmonic Motion (SHM). (SHM can be clubbed with all Mechanics, Electricity-Magnetism Concepts).
- Try to revise Electrostatics and Gravitation at least once.
- Try to revise L-R-C circuits once more.
- Try to solve the questions of topics which involves removing some part of the object.
- Solve questions of the oblique collision with projectile motion concept.
- Solve question of calculating Net Resistance and Net Capacitance.
- Solve questions of YDSE.
In JEE Main, If a student will be scoring more than 100 marks in Physics:

- Your score shows that you have good knowledge of fundamental physics.
- All the points which are suggested to the *(60-90 marks)* scorers, are also applied to you.
- Your success rate in physics depends how you deal with Mechanics & Electricity-Magnetism part. We suggest you to revise Electricity & Magnetism part first,
- Order for solving questions of Electrostatics & Magnetism:-
  1. A.C.
  2. Capacitors (change in capacitor plates, heat produced in the circuit)
  3. Current Electricity (cells, potentiometer, meter bridge, calculating net resistance)
  4. Magnetism (field due to current carrying conductors, force on charged particles)
  5. Electrostatics (different field and potential due to various objects)
  6. EMI (can be asked with concepts of mechanics)
- When you are finished with Electricity and Magnetism, try to concentrate on Mechanics.
- Order for solving Mechanics part: -
  1. Work, Power, Energy. (can be asked with any other topic)
  2. System of Particles (carefully learn conservation of linear momentum to improve basic physics)
  3. Rotational Motion + Circular Motion (except Rolling)
  4. Fluid dynamics (Equation of continuity & Applications of Bernoulli theorem)
General Tips for Physics for all:

- No need to revise complete mechanics as you may have already digested.
- Revise units & dimensions, errors & experiments.
- Revise modern physics and optics topics.
- Revise properties of matter (fluids, surface tension, viscosity and elasticity).
- Revise waves and sound.
- List down important formulae and key points from rest of remaining topics.
- Avoid learning new concepts.
- Identify confusing concept and avoid questions from those concepts.
- Consolidate what you have known already.
- Identify all types of problems which may cause fear and stay away from them.
Chemistry Analysis

DISTRIBUTION OF MARKS - ORGANIC/INORGANIC/PHYSICAL CHEMISTRY

- Inorganic Chemistry
- Organic Chemistry
- Physical Chemistry

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<th>Physical</th>
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<tr>
<td>2015</td>
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<td>33%</td>
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<tr>
<td>2016</td>
<td>31%</td>
<td>34%</td>
<td>35%</td>
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Chemistry Analysis

Average Marks Distribution
Organic/Inorganic/Physical Chemistry

- Physical Chemistry: 35%
- Inorganic Chemistry: 32%
- Organic Chemistry: 33%
Physical Chemistry Analysis

TOPIC WISE MARKS DISTRIBUTION IN %

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ORGANIC CHEMISTRY ANALYSIS

TOPIC WISE MARKS DISTRIBUTION IN %

- Nomenclature & GOC: 11.0% in 2012, 10.8% in 2013
- Carbonyls: 5.0%, 4.8% in 2013, 5.0%, 4.8% in 2014
- Aromatics + Phenols: 2.2%, 2.2% in 2012, 7.5% in 2013
- Biomolecules & aminoacids + Polymers: 4.4%, 5.0% in 2012, 6.5% in 2013
- Alkanes, Alkenes, Alkynes & Alkadienes: 5.9%, 5.9% in 2012, 6.5% in 2013
- Carboxylic Acids & Amines: 14.3% in 2012, 7.5% in 2013
- Alcohols + Ethers: 4.4% in 2012, 7.5% in 2013
- Alkyhalides + Aryl: 2.5% in 2012, 5.0% in 2013
- Stereochemistry: 11.0% in 2012, 10.8% in 2013
ORGANIC CHEMISTRY ANALYSIS

Average Marks of last 5 years in %

- Nomenclature & GOC: 6.8%
- Carboxylic Acids & Amines: 5.0%
- Carbonyls: 5.7%
- Alcohols + Ethers: 0.5%
- Stereochemistry: 0.5%
- Alkylhalides + Aryl: 0.3%
- Biomolecules & aminoacids + Polymers: 3.9%
- Alkanes, Alkenes, Alkynes & Alkadienes: 4.8%
- Aromatics + Phenols: 5.1%

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INORGANIC CHEMISTRY ANALYSIS

Average Marks of last 5 years in %

- **P Block**, 10.6%
- **Coordination Compound**, 7.4%
- **Periodic Properties & Chemical Bonding**, 4.7%
- **Metallurgy**, 3.8%
- **Qualitative Analysis**, 3.0%
- **Hydrogen & Its Compound**, 1.0%
- **D & F Block**, 0.5%
- **S Block**, 0.9%

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In JEE Main, If a student will be scoring less than 50 marks in Chemistry:

- Be selective in Solving Advanced Chemistry Questions.
- Always start solving questions of topics where you have already got correct answers in Mains Question Paper or Topics which you are good at.
- Read only NCERT books for Inorganic Chemistry.
- Concentrate more on inorganic topics like Chemical bonding, Metallurgy, Coordination Compounds, p-block from NCERT book.
- Read 12th Standard physical Chemistry topics like Chemical Kinetics, Solutions & its colligate properties, Solid State, Electrochemistry.
- For Organic Chemistry, read only GOC, Carbonyl Compounds & Named Reactions.
- Try to solve organic conversion and old papers.
In JEE Main, If a student will be scoring marks between 60 – 90 in Chemistry:

- Your Mains Score shows that you are good in at least half of the syllabus.
- Identify the concept where you were correct in the Mains Question Paper & Revise them.
- Solve all the old JEE Advanced Papers in detail.
- Strengthen concepts of GOC, Reactions Mechanism, Named Reactions, Chemical Bonding, P-block, Metallurgy, Coordination Compounds, Qualitative Analysis, Thermodynamics, Electrochemistry, Chemical & Ionic Equilibrium.
- Solve previous years subjective paper of JEE Advanced, to strengthen your conceptual and analytic skills.
- Revise Inorganic Chemistry from J.D. Lee.
- Solve some theory type questions from physical chemistry.
- Solve organic conversions and passage type questions and reading organic as a whole means topics like substitution reactions, elimination reactions etc.
In JEE Main, If a student will be getting more than 100 marks in Chemistry:

- Your marks score shows that you have a good knowledge of entire chemistry.
- All the points which are suggested to the (60-90 marks) scorers, are also applied to you.
- Your success rate in chemistry depends on how you deal with inorganic in particular.
- Solve multi-conceptual Questions.
- List out all exceptions in Organic Chemistry.
- Solve tough Organic Concepts and Questions.
General Tips for Chemistry for all:

- No need to revise complete chemistry taught to you. Prepare according to JEE Advanced Syllabus. Strictly stick to the syllabus while preparing.
- Don’t try to attempt all the questions unless you are confident (To avoid negative marking).
- Don’t gamble.
- Identify sections with no negative marking where you can take risk.
- Be careful about more than one answer type.
- Understand question carefully before answering.
- In chemistry, you can make mistake easily, so be careful and attentive while answering.
## Mathematics Analysis

**TOPIC WISE MARKS DISTRIBUTION IN %**

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As you can see in above pie chart, on an average 11.7% of total marks of Mathematics are asked from Vector & 3D which is almost in equal proportion but in 10.4% of conics section, around 8-9% questions are asked from Parabola.

Every year minimum one question is asked from Limit. Questions from Matrices & Determinants are related to each other. In trigonometry, most of the question are from Trigonometric Equations.
Mathematics Analysis

Tips for Mathematics by Rao IIT Experts

In JEE Main, If a student will be scoring less than 60 marks in Mathematics:

- Same as Physics & Chemistry, Be selective in Solving Advanced Mathematics Questions too.
- Initially select easy questions and try to solve them quickly.
- Focus more on chapters like Functions, Limit, Continuity & Differentiability, Straight lines, Circles, Trigonometric Equations, Vectors-3D, Quadratic Equation, Differential Equation, Matrices & Determinants.
- Your revision plan must be smart. What to revise, when to revise and from where to revise.
- Focus your approach on revision.
In JEE Main, If a student will be scoring between 60 - 90 marks in Mathematics:

- Identify concepts where you were correct in the Mains question paper and revise them firstly.
- Strengthen your concepts in the following: AOD, Integration and its Applications, Vector, 3-D, Matrices & Determinant, Binomial, Solutions of triangles, Inverse Trigonometric Function, Area under curve. These topics constitute 35 – 40% of the question paper.
- Solve old subjective papers of JEE advance and KVPY paper, this will strengthen your concept and analytic skills.
- Now identify the topics in Algebra, Co-ordinate which you have learnt in the past and revise them. But we are suggesting that do not learn new topics.
- Clear each and every concept and doubts. Don’t read maths, always write so that you can minimize the error.
- If somebody feels that he/she is good at Algebra, Co-ordinate then his/her first priority should be Complex Numbers, Probability, Conics. (Probability can be clubbed with P & C).
- Try to revise Binomial, Inverse Trigonometric Function, Trigonometric Equations, Differential Equation at least once.
- Try to solve questions on Newton-Leibniz formula & Bayes' theorem.
- Solve some passage type Questions.
In JEE Main, If a student will be scoring more than 100 marks in Mathematics:

- All the points which are suggested to the (60-90 marks) scorers, are also applied to you.
- Understand all concepts along with theory and solve questions based on every concept. Try to solve multi-conceptual questions. Never neglect any particular chapter. Even you should concentrate more on topics in which you are not comfortable.
- We Suggest you to revise Algebra & Calculus parts first. Then, try to concentrate on Vector, 2-D, 3-D, Matrices & Determinants.
- Always try to solve questions in different ways rather than one straight way.
- Your attempt of Question should be selective for first 30 minutes, this will give you confidence for solving difficult questions in later half. Solve the questions, those are coming first in the paper. Some questions may be easy but lengthy, solve them later.
- You must go through KVPY paper properly.
- Work on differential equations specially linear and convertible and via inspection
- Work on mean value theorem
- Take care of different errors involved in solving trigonometric equations
General Tips for Mathematics for all:

- Study by plan, not by number of hours.
- Previous ten years JEE Main and Advanced, and KVPY papers must be solved properly.
- The laboratory of mathematics is pen and paper, so don't try to just read, solve them using pen and paper. Habit of shortcuts can only be developed by practice.
- Your daily goal should be achieved, so take some buffer time accordingly.
- Prepare according to JEE advanced syllabus. Strictly stick to the syllabus while preparing.
- Algebra, Calculus, 2-D Geometry are the most important topics. Make good command on these topics.
- Daily solve maximum number of math test papers. The only way to become an expert in JEE maths paper is possible by practicing minimum 3 sets of mock/previous year papers on a daily basis, so to get a hang of exam and question patterns. Remember the possibility of improvement, depends on your ability of solving maths problems accurately.
- Students get all excited to solve math questions one after the other. This approach is perfect, if you are sure of answering it correctly. However, this is not general scenario, so it’s better to sort the paper into 3 levels - Easy, Medium & Difficult. This approach gives you an opportunity to cover maximum number of questions in a short period of time. It also increases your chance of scoring higher marks by avoiding negative marks.
- In mathematics more than 50% of the questions come through tricks/methods/concepts involved in solving a particular problem. Learn easy and fast concepts for every question. This will develop a habit of correct approach.
All the best for your JEE Advanced

Thank You !!