# II. Study Strategy and Method of PHYSICS for NEW JEE

- **BY NKC SIR**

## WHY IIT JEE IS DIFFERENT

Preparing for IIT JEE is a challenge into itself, the questions are based on the applied science and each question encompasses within itself several concepts which must be decoded and incorporated in the procedure of finding solution.

## CRAZE OF IIT

Because admission to IIT is difficult to achieve, tougher the target more attractive it becomes and challenges adds to its appeal.
Its pattern is decided by the government, IIT graduates gets employment in public sector.
Big companies compete with one another to hire IIT graduates, offering them perk and huge package.
Praise and applause from all around gives the candidate a strength of ecstasy that is unparallel.

## SUCCESS TIPS – (1)

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(1) Cultivate a specific mental setup.
(2) More than anything else IIT JEE is the test of your mental setup so you need to cultivate some specific attributes if you want to crack IIT JEE.

## ATTRIBUTES

You need to be a planner keeping mind your strength & weaknesses and the time available.
You should have a meticulous plan of study, setup mile stone according to period of time, month, weekdays, hours and even for minutes.
You need to be a person of determination who executes the plan steadfast and thoroughly.
Remember!!!! Making a plan and not active upon that or procrastinating and making allies will not take you anywhere.
Don't take unnecessary guidance and advice from others. Figure out exactly where you are stuck and search for the answer from the reliable sources like your teacher's & Books. The question could be anything related to subject and your attitude etc.
If you are sitting at JEE, you must have your own impression on everything by now.
Don't give up your preparation!

* Don't get stop when you feeling desperate, take a break to re energies yourself and start moving again.
* Don't listen to the fellows who expresses negativity just leave them and move forward.

## SUCCESS TIPS – (2)

Be clear on what IIT JEE test in view. In recent years, IIT JEE has become complete objective type test

* IIT-JEE is no longer the test of memory & range of your knowledge,
  it also tests your concepts, comprehension and analytical skills.

## SUCCESS TIPS – (3)

Be ready to manage "Surprises!!!"

### *Different pattern of question*

- Questions are designed to test some specific skills and basic subject skills,
  it is not fix that JEE will ask questions based upon certain fixed formats only.
  So train your mind to accept the questions in all together new-new formats.
  Even if you get problems in new ways, don't panic.
  You already possess basic skills set to crack the problems from particular subject if you are prepared well. With the help of a little bit of imagination of practical thinking, you will be enough tactical to solve the new problems easily.

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| | 2007 | 2008 | 2009 | 2010 | Average % |
|---|---|---|---|---|---|
| Mechanics and General Physics | 34% | 42% | 38% | 30% | 36% |
| Electrostatics, Currents, Magnetism | 23% | 22% | 23% | 30% | 24% |
| Heat and Thermodynamics | 7% | 9% | 8% | 9% | 8% |
| Optics, Sound and Waves | 23% | 13% | 13% | 19% | 17% |
| Modern Physics | 14% | 13% | 18% | 13% | 14% |
| Total | 100% | 100% | 100% | 100% | 100% |

### *Class wise distribution:*

| | PHYSICS | | CHEMISTRY | | MATHEMATICS | |
|---|---|---|---|---|---|---|
| | PAPER I | PAPER II | PAPER I | PAPER II | PAPER I | PAPER II |
| Questions from class XI | 7 | 9 | 7 | 6 | 8 | 6 |
| Questions from class XII | 13 | 11 | 13 | 14 | 12 | 14 |

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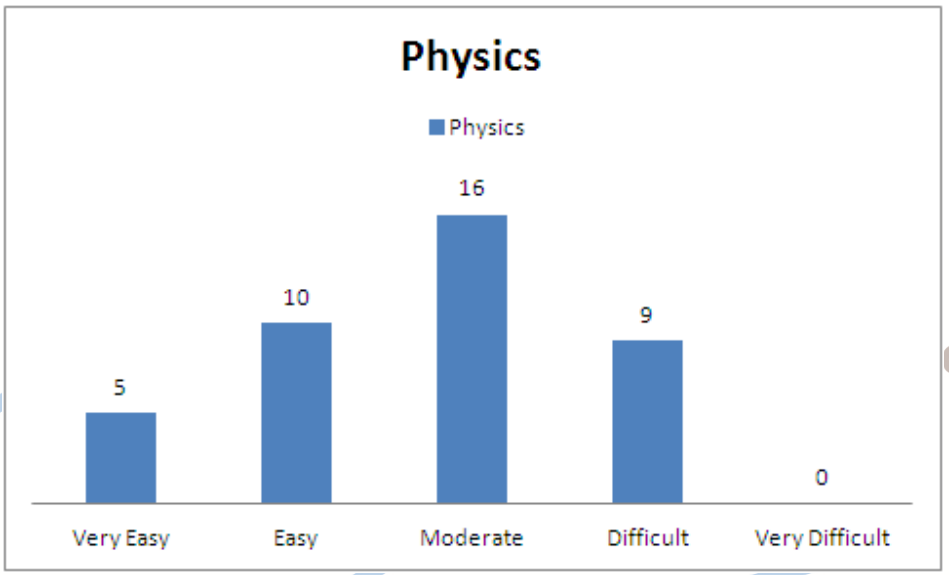
Physics paper–I was bit easier and short compared to Physics paper-II, the paragraph based questions were difficult, Physics had 9 difficult questions and none very difficult and in overall the physics paper was moderately difficult ,The cut-off for Physics in IIT JEE 2012 merit list is expected to be in between 20 to 25 in each paper.

***Difficulty level:***




**IIT JEE 2012 Class Wise Distribution of Questions and Marks :**

| Subject | Paper | No. of Questions 11th | No. of Questions 12th | Marks 11th | Marks 12th |
|---|---|---|---|---|---|
| Physics | Paper 1 | 7 | 13 | 24 | 46 |
| | Paper 2 | 9 | 11 | 28 | 38 |
| Chemistry | Paper 1 | 7 | 13 | 23 | 47 |
| | Paper 2 | 6 | 14 | 21 | 45 |
| Mathematics | Paper 1 | 8 | 12 | 28 | 42 |
| | Paper 2 | 6 | 14 | 18 | 48 |
| Total | Paper 1 | 22 | 38 | 75 | 135 |
| | Paper 2 | 21 | 39 | 67 | 131 |

## Difficulty Level Analysis : No. of Questions

| Subject | Very Easy | Easy | Moderate | Difficult | Very Difficult | Total |
|---|---|---|---|---|---|---|
| Physics | 5 | 10 | 16 | 9 | | 40 |
| Chemistry | 3 | 5 | 20 | 11 | 1 | 40 |
| Mathematics | 1 | 8 | 18 | 11 | 2 | 40 |
| Total | 9 | 23 | 54 | 31 | 3 | 120 |

## Difficulty Level Analysis : Marks Allocation

| Subject | Very Easy | Easy | Moderate | Difficult | Very Difficult | Total |
|---|---|---|---|---|---|---|
| Physics | 15 | 32 | 58 | 31 | 0 | 136 |
| Chemistry | 9 | 15 | 70 | 38 | 4 | 136 |
| Mathematics | 3 | 25 | 63 | 37 | 8 | 136 |
| Total | 27 | 72 | 191 | 106 | 12 | 408 |

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## IIT JEE 2012 Physics Question Paper Analysis (Overall)

| Subject/Topic | No of Questions | Total Marks | % Weightage |
|---|---|---|---|
| Rotation (Rigid Body Dynamics | 7 | 24 | 17.6% |
| Electro Magnetic Field | 5 | 18 | 13.2% |
| Electrostatics | 4 | 15 | 11.0% |
| Geometrical Optics | 3 | 9 | 6.6% |
| Modern Physics 1 | 2 | 7 | 5.1% |
| Sound Waves | 2 | 7 | 5.1% |
| Modern Physics 2 | 2 | 6 | 4.4% |
| Kinetic Theory of Gases | 2 | 6 | 4.4% |
| Circular Motion | 2 | 6 | 4.4% |
| Current Electricity | 1 | 4 | 2.9% |
| Gravitation | 1 | 4 | 2.9% |
| Electro Magnetic Induction | 1 | 4 | 2.9% |
| Alternating Current | 1 | 4 | 2.9% |
| Friction | 1 | 4 | 2.9% |
| Simple Harmonic Motion | 1 | 3 | 2.2% |
| Wave Optics | 1 | 3 | 2.2% |
| Capacitance | 1 | 3 | 2.2% |
| Fluids | 1 | 3 | 2.2% |
| Experiments & Error Analysis | 1 | 3 | 2.2% |
| Heat Transfer | 1 | 3 | 2.2% |
| **Grand Total** | **40** | **136** | **100.0%** |

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