

JEE Advanced 2015 Paper Analysis

Physics Paper 1 - Analysis

Topic	Number of Questions	Marks	Weightage (%)
Capacitance			
Current electricity	1	4	4.5
Magnetic Field and Effects on a Current carrying conductor	1	4	4.5
Electromagnetic field			
E.M.I & AC			
Electrostatics	2	8	9.1
Heat transfer	1	4	4.5
KTG and thermodynamics	1	4	4.5
Work, Energy and Power	1	8	9.1
Newton's Laws of Motion			
Fluid mechanics & properties of matter			
Gravitation	1	4	4.5
Motion in a Straight Line			
Rigid body dynamics	2	8	9.1
Surface tension			
Unit, dimension & Errors	2	8	9.1
EM waves & communication			

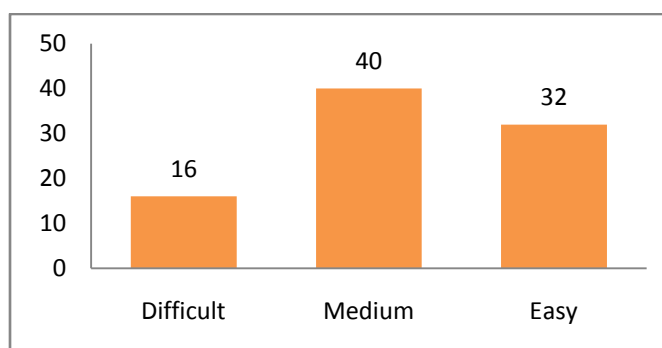
Modern physics	4	20	22.7
Semi-conductor			
Geometrical and physical optics	2	8	9.1
Wave optics	1	4	4.5
SHM	1	4	4.5
String waves and sound waves			

- Number of Questions Class Wise:

Class 11	9
Class 12	11

Toughness Grading		
Level	No of Questions	Max Marks
Difficult	3	16
Medium	9	40
Easy	8	32

- Distribution of Maximum marks:



Final Review:

- Questions were more descriptive and analytical in nature.
- Match the following questions were easy but analytical and expected more time.
- Paper on the whole was moderately difficult factoring in the time it expected.

Physics Paper 2 - Analysis

Topic	Number of Questions	Marks	Weightage (%)
Capacitance	1	4	5
Current electricity	1	4	5
Magnetic Field and Effects on a Current carrying conductor	2	8	10
Electromagnetic field			
E.M.I & AC			
Electrostatic	1	4	5
Heat transfer			
KTG and thermodynamics	1	4	5
Center of mass			
Newton's Laws of Motion			
Fluid mechanics & properties of matter	2	8	10
Gravitation	2	8	10
Motion in a Straight Line			
Rigid body dynamic	1	4	5

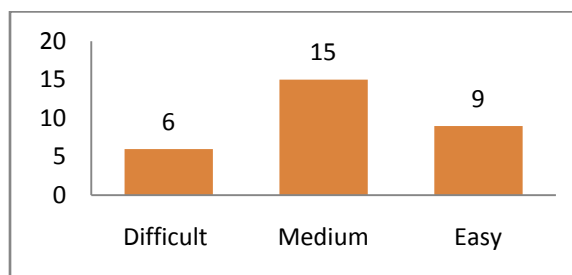
Surface tension			
Unit, dimension & Errors	2	8	10
Motion in a plane			
EM waves & communication			
Modern physics	3	12	15
Semi-conductor			
Geometrical and physical optics	3	12	15
Wave optics			
SHM and Oscillation	1	4	5
String waves and sound wave			

- **Number of Questions Class Wise:**

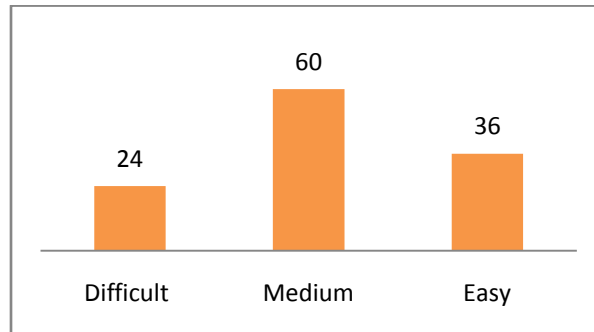
- Class 11 - 9
- Class 12 - 11

Toughness Grading		
Level	No of Questions	Max Marks
Difficult	4	16
Medium	11	44
Easy	5	20

- **Distribution of Number of Questions:**



- **Distribution of Maximum marks:**



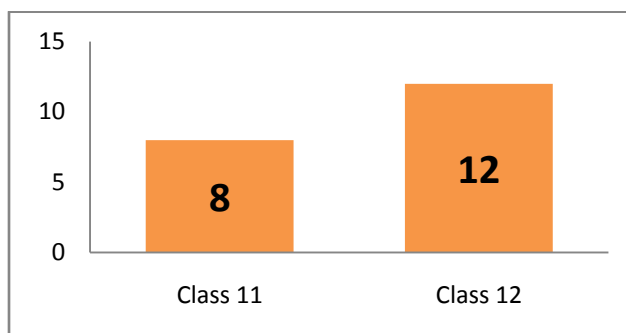
Final Review:

- 72% Questions are explicitly derivable from NCERT.
- Emphasis was given more on basic concepts and analytical aptitude was needed in many questions.
- Questions on the whole had almost the same difficulty level, if compared to JEE Mains 2014.

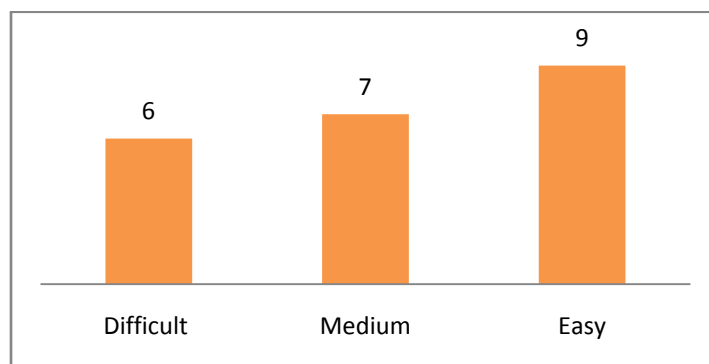
Chemistry Paper 1 (Analysis)

Topic name	No. of questions	Marks	Percentage
Chemical bonding	2	8	10%
p-block & S-block	1	4	5%
Periodic table & periodicity	1	4	5%
d-block & f- block	3	12	15%
Transition elements & co-ordination	1	4	5%
GOC-2	3	12	15%
Alkyl halide, alcohol & ether, carbohydrate, amino acids & polymers	1	4	5%
Carboxylic acid & their derivative, Aldehydes & Ketones	1	4	5%
Practical organic chemistry	1	4	5%
atomic structure	1	4	5%
Gaseous state	0	0	0%
Equilibrium	0	0	0%
Mole concept	0	0	0%
Thermodynamic & thermochemistry	1	4	5%
Chemical kinetic	1	4	5%
Electrochemistry	1	4	5%
Solid state	1	4	5%
Solutions	1	4	5%
	20	80	100%

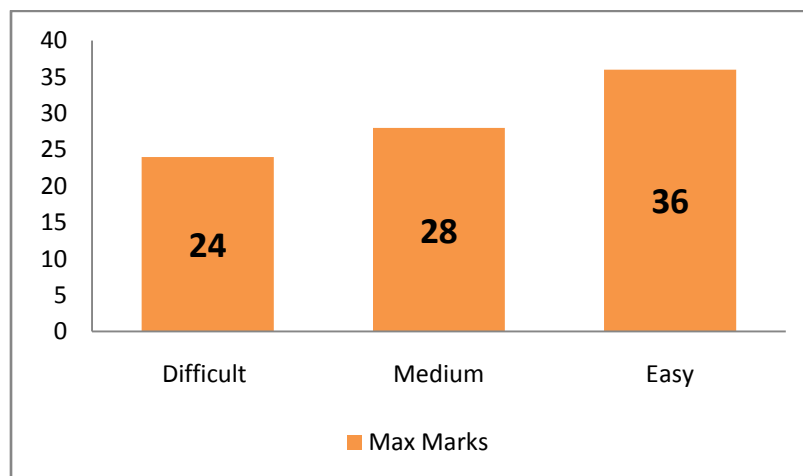
• Number of Questions Class Wise:



Toughness Level		
Level	No of Questions	Max Marks
Difficult	6	24
Medium	7	28
Easy	9	36



- **Marks Distribution**



- **Number of questions from individual parts:**

Physical Chemistry	7
Inorganic Chemistry	6
Organic Chemistry	7

Final Review:

- 65% questions are directly from NCERT
- Emphasis was given more on logical concepts in all parts of chemistry
- 9 easy questions can be solved within 45 seconds
- 6 difficult questions may consume 4-5 minutes
- 2-3 mechanism based question in Organic Chemistry
- Since paper was medium level type the CUT OFF for Chemistry may be 25-35

Chemistry Paper 2(Analysis)

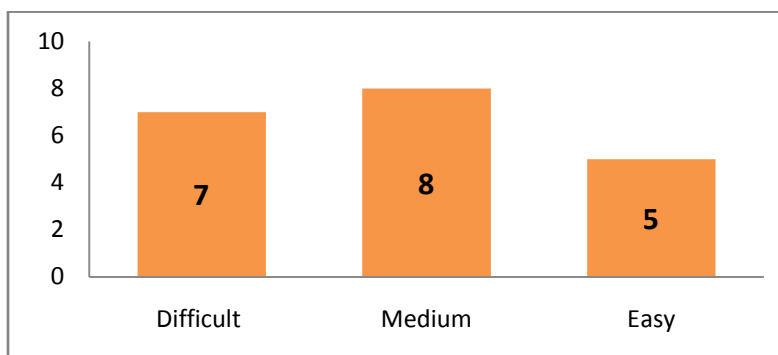
Topic name	No. of questions	Marks	Percentage
Chemical bonding	1	4	5%
p-block & S-block	2	8	10%
Periodic table & periodicity	1	4	5%
d-block & f block	2	8	10%
Transition elements & coordination	2	8	10%
GOC-2	3	12	15%
Alkyl halide, alcohol & ether, carbohydrate, amino acids & polymers	1	4	5%
Carboxylic acid & their derivative, Aldehydes & Ketones	1	4	5%
Practical organic chem	1	4	5%
atomic structure	1	4	5%
Gaseous state	0	0	0%
Equilibrium	0	0	0%
Mole concept	0	0	0%

Thermodynamic & thermochemistry	1	4	5%
Chemical kinetic	1	4	5%
Electrochemistry	1	4	5%
Solid state	1	4	5%
Solutions	1	4	5%
	20	80	100%

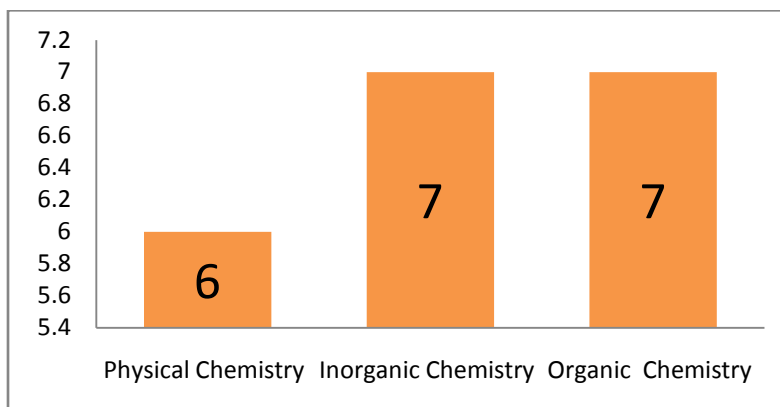
- **Number of Questions Class Wise:**

- Class 11 - 7
- Class 12 - 13

Toughness		
Level	No of Questions	Marks
Difficult	7	28
Medium	8	32
Easy	5	20



- Number of questions from individual parts:



Final Review:

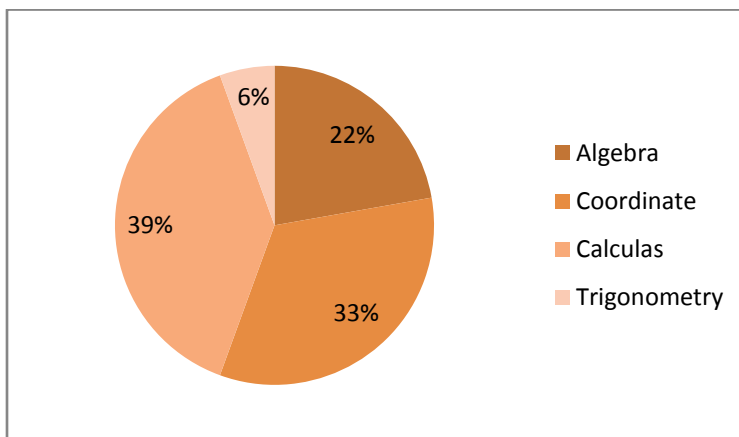
- 55% questions are directly from NCERT
- Emphasis was given more on logical concepts in all parts of chemistry
- 5 easy questions can be solved within 45 seconds
- 7 difficult questions may consume 7-8 minutes
- 2-3 mechanism based question in Organic Chemistry
- Since paper was medium level type the CUT OFF for Chemistry may be 25-30

Mathematics Paper-1 Analysis

1. The JEE Advanced 2015 Paper 1 and 2 had ten different sets- 0 to 9. Questions were same but were rearranged.
2. There were a total of 60 questions of 264 marks.
3. Negative marking was introduced in more or one correct corrections and that to 50%.
4. Mathematics was of 88 marks. Distribution was almost equal for 11th and 12th conceptually. Precisely numbers are presented in following table according to question.

Subject	Paper	No of Questions		Marks	
		11 th	12 th	11 th	12 th
Mathematics	Paper 1	8	12	40	48

5. Overall paper was difficult not because of toughness of paper but because of pattern of the paper.



(This is based on 18 questions excluding matrix type.)

Mathematics Paper-2 Analysis

1. The JEE Advanced 2015 Paper 1 and 2 had ten different sets- 0 to 9. Questions were same but were rearranged.
2. There were a total of 60 questions of 240 marks.
3. As compare to paper 1, paper 2 was bit tougher as the questions came really tricky.
4. Pattern of the paper which include 50% negative paper made it further difficult

Subject	Paper	No of Questions		Marks	
		11 th	12 th	11 th	12 th
Mathematics	Paper 2	8	12	32	48

- Paper 2 Section wise analysis

