

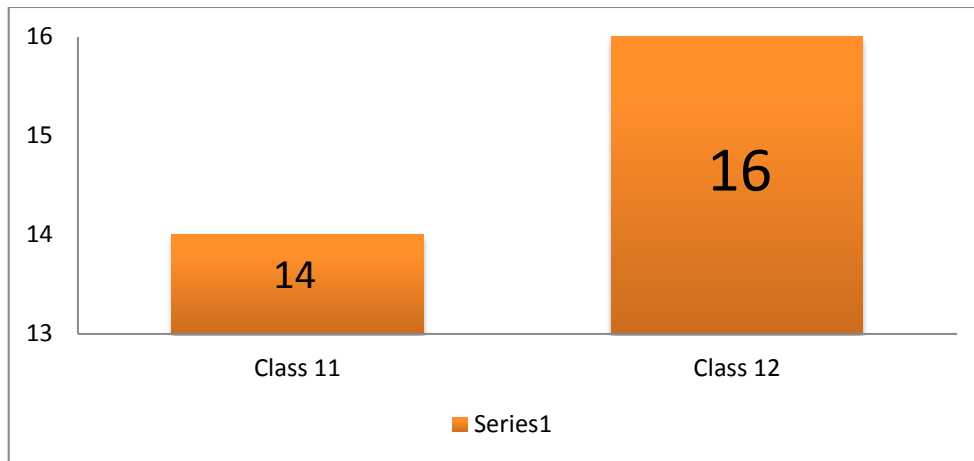
JEE MAIN 2015 Paper Analysis

Paper Analysis "Chemistry"

Topic Name	No of question	Marks	%weightage
Chemical bonding	2	8	7%
p-block & S-block	3	12	10%
Periodic table& periodicity	1	4	3%
d-block& f block	1	4	3%
Transition elements &co-ordination	3	12	10%
GOC-2	2	8	7%
Alkyl halide, alcohol& ether, carbohydrate, amino acids & polymers	4	16	13%
Carboxylic acid & their derivative, Aldehydes & Ketones	3	12	10%
Practical organic chem	1	4	3%
atomic structure	1	4	3%
Gaseous state	1	4	3%
Equilibrium	2	8	7%
Mole concept	1	4	3%
Thermodynamic & thermochemistry	1	4	3%
Chemical kinetic	1	4	3%
Electrochemistry	1	4	3%
Solid state	1	4	3%
Solutions	1	1	1%
	30	120	100%

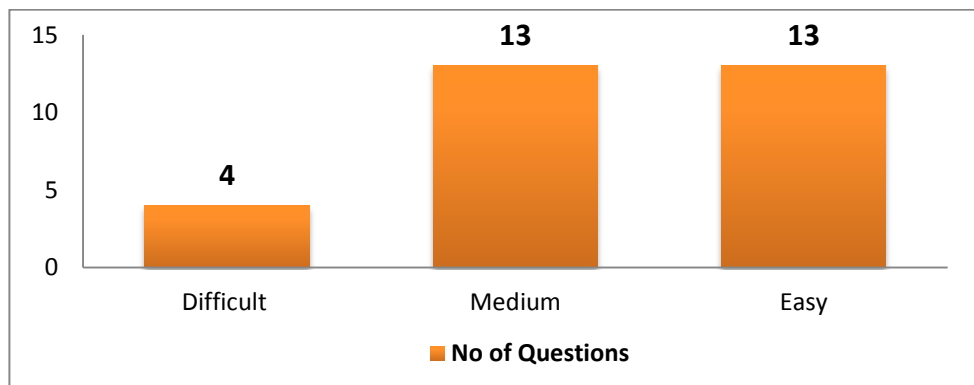
- Number of Questions Class Wise:

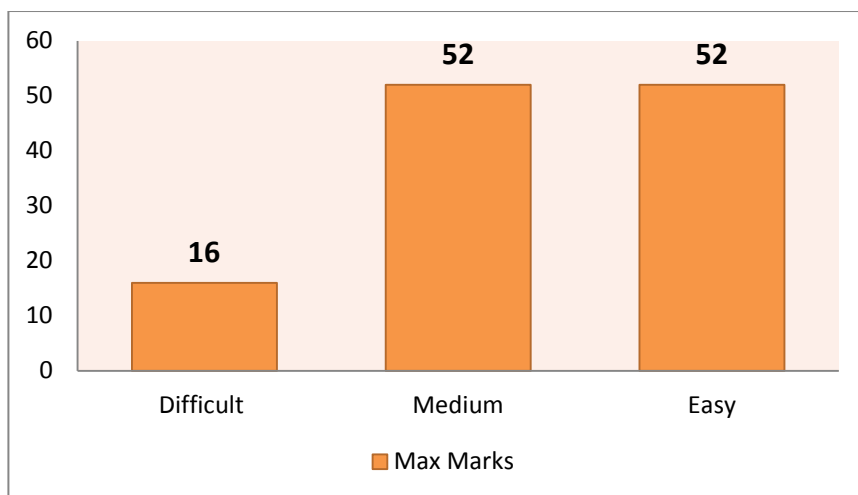
Class 11	14
Class 12	16



- **Toughness Level**

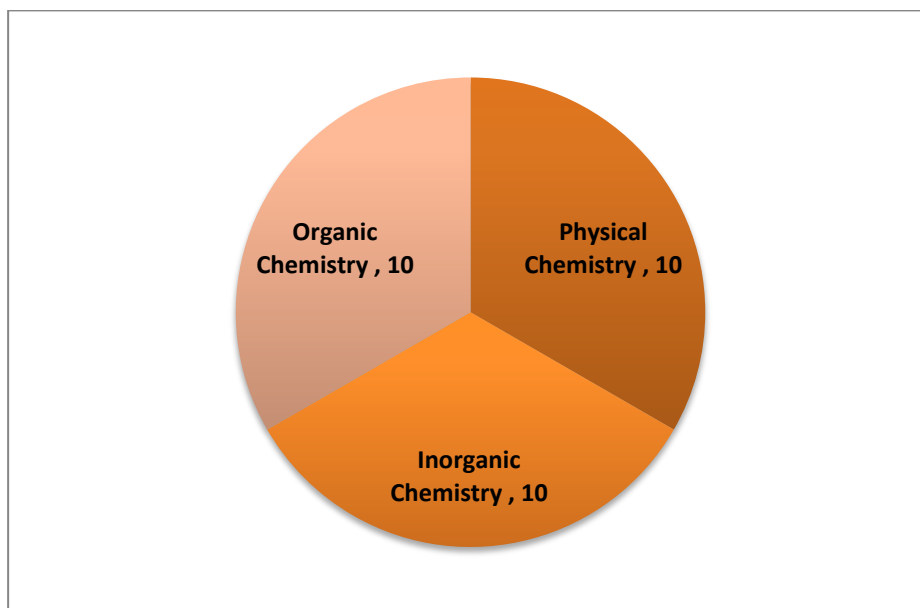
Level	No of Questions	Max Marks
Difficult	4	16
Medium	13	52
Easy	13	52





- Number of questions from individual parts:

Physical Chemistry	10
Inorganic Chemistry	10
Organic Chemistry	10



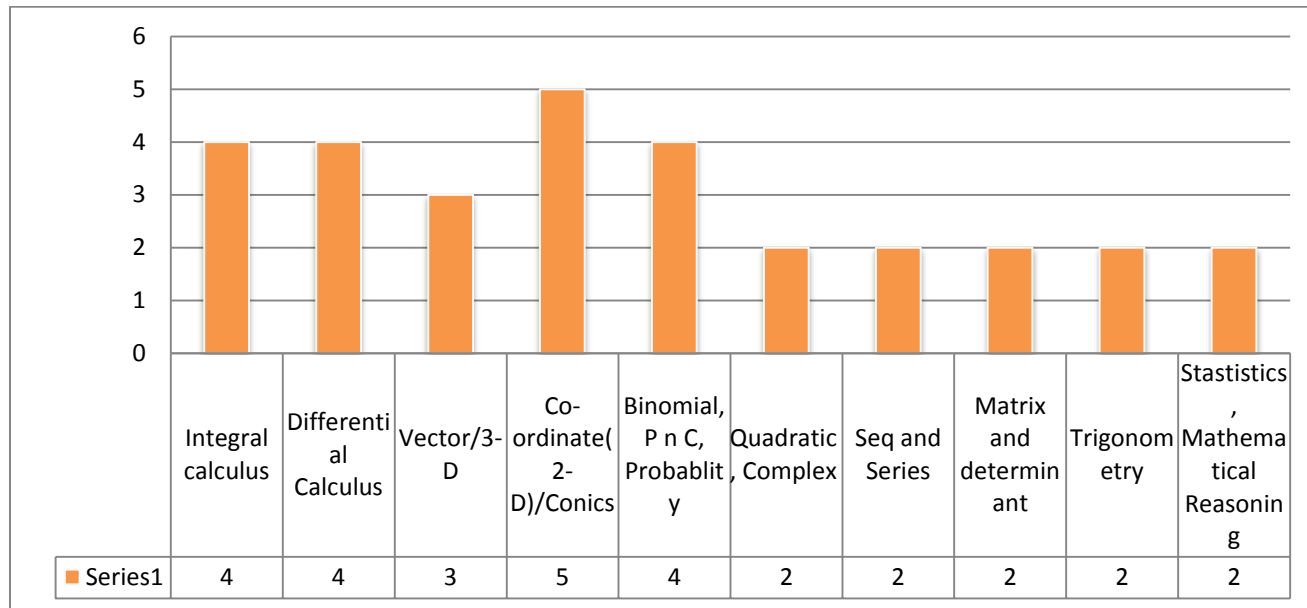
Final Review:

- 80% questions are directly from NCERT
- Emphasis was given more on logical concepts in all parts of chemistry
- 7 easy questions can be solved within 30 seconds
- 4 difficult questions may consume 4-5 minutes
- No mechanism based question in Organic Chemistry
- **Since paper was medium level type the CUT OFF for Chemistry may be 30-40**

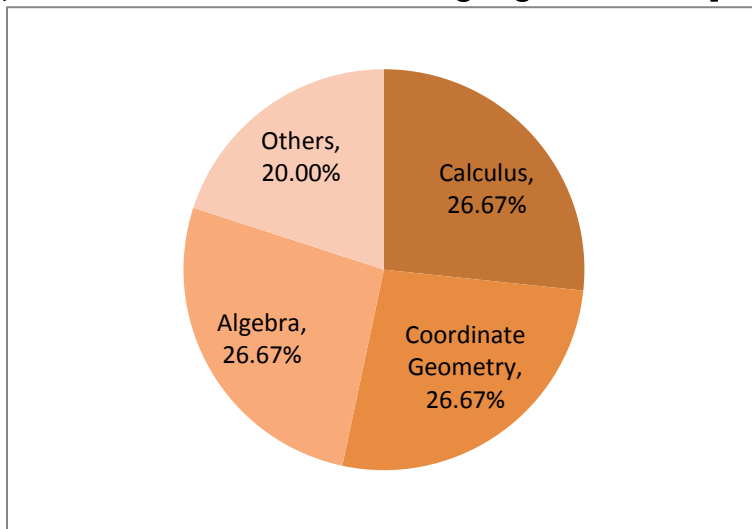
Paper Analysis “Mathematics”

Topic	Questions	Max. Marks	% Weightage
Sets, Relation		0	0%
Trigonometry	1	4	3%
Inverse-trigonometry	1	4	3%
Trigonometry ratio and identity		0	0%
Trig equation		0	0%
Quadratic equation	1	4	3%
Complex number	1	4	3%
Sequence and series	2	8	7%
Binomial theorem	2	8	7%
Permutation and combination	1	4	3%
probability	1	4	3%
Co-ordinate geometry(2-D)	1	4	3%
Co-ordinate geometry (3-D)	2	8	7%
Vector	1	4	3%
Matrix & determinant	2	8	7%
Straight lines	1	4	3%
Circle	1	4	3%
Ellipse	1	4	3%
Parabola	1	4	3%
Limit of function	1	4	3%
Differentiability	1	4	3%
Differentiation		0	0%
Application of derivative	2	8	7%
Indefinite integration	1	4	3%
Definite integration	1	4	3%
Area under curve	1	4	3%
Differential equation	1	4	3%
Mathematical reasoning	1	4	3%
statics	1	4	3%
Grand total	30	120	100%

• **JEE-Mains 2015 Mathematics Topic-wise Weightage**



• **JEE-Mains 2015 Mathematics Weightage of Broad Topics**



• **Toughness Level**

Easy	14
Medium	13
Hard	3

• **Expected Cut-off: 36-40 Marks**

- **No Of Question Class Wise**
 - **Class 11:** 15 questions
 - **Class 12:** 15 questions

Final Review

- Overall difficulty of paper was easy as compare to previous year paper.
- Class XI and XII carried equal weightages unlike 40-60 ratio.
- As was expected difficult questions came in quadratic equation, straight lines and probability.
- Algebra, Calculus and Co-ordinate Geometry Carried Equal weightages.
- Calculus was easy, Co-ordinate was medium and Algebra was relatively tough.
- We expect a cut-off around 36-40.

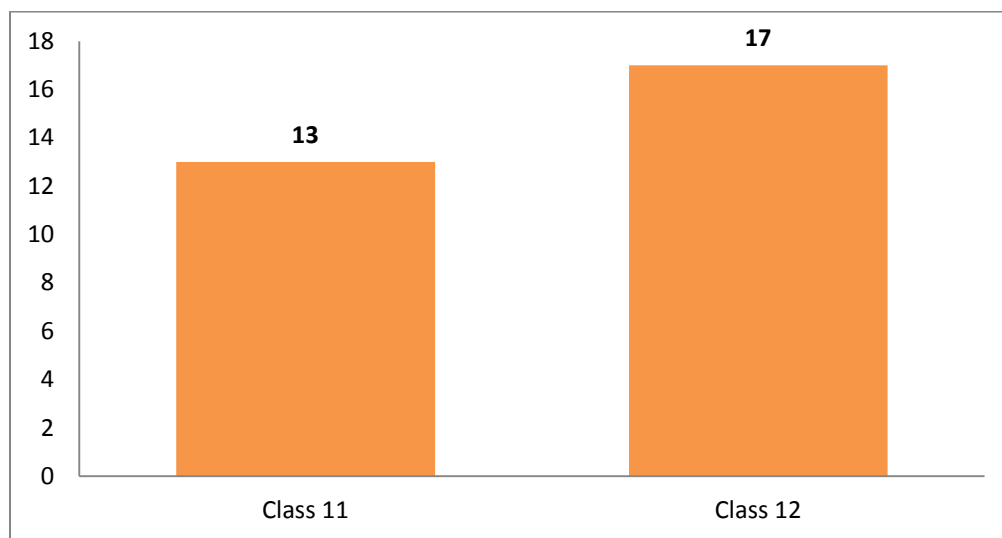
Paper Analysis “Physics”

Topic	Number of Questions	Marks	Weightage (%)
Capacitance	1	4	3.33
Current electricity	2	8	6.67
Magnetic Field and Effects on a Current carrying conductor	3	12	10
Electromagnetic field	1	4	3.33
E.M.I & AC	2	8	6.67
Electrostatic	2	8	6.67
Heat transfer	1	4	3.33
KTG and thermodynamics	2	8	6.67
Center of mass	1	4	3.33
Newton’s Laws of Motion	1	4	3.33
Fluid mechanics& properties of matter	1	4	3.33
Gravitation	1	4	3.33
Motion in a Straight Line	1	4	3.33
Rigid body dynamic	2	8	6.66
Surface tension	0	0	0
Unit, dimension & Errors	1	4	3.33
EM waves& communication	1	4	3.33
Modern physics	2	8	6.67
Semi-conductor	0	0	0
Geometrical and physical optics	2	8	6.67

Wave optics	1	4	3.33
SHM	1	4	3.33
String waves and sound wave	1	4	3.33

- **Number of Questions Class Wise:**

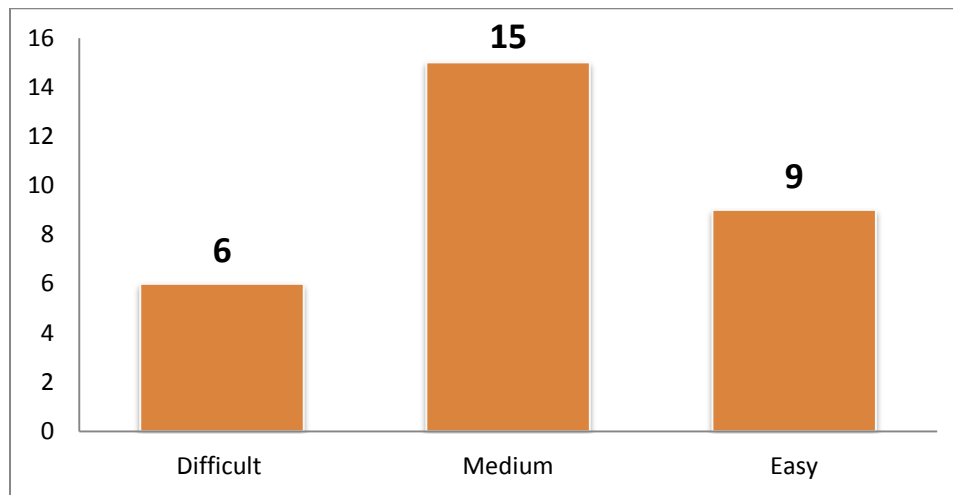
Class 11	13
Class 12	17



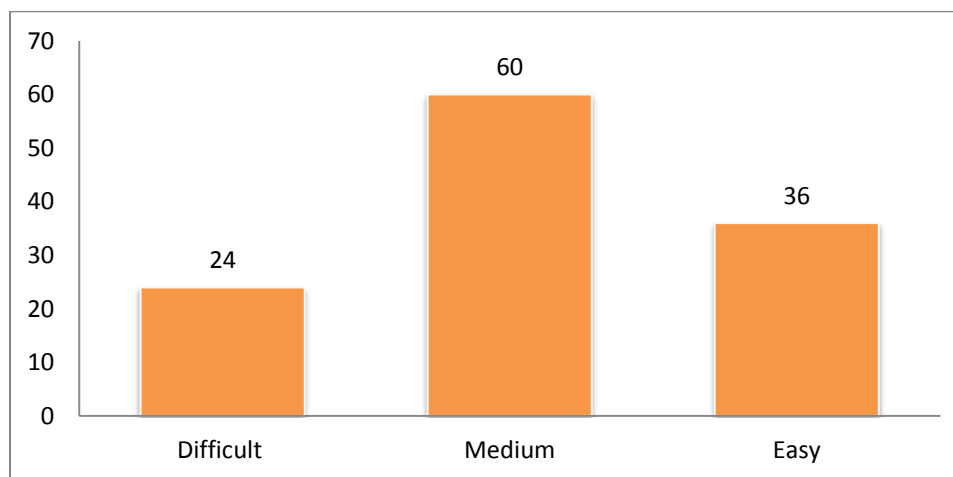
- **Toughness Level**

Level	No of Questions	Max Marks
Difficult	6	24
Medium	15	60
Easy	9	36

- **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.