### Solved Papers JEE MAIN JANUARY 2019

# CHEMISTRY

#### **CHAPTERWISE ANALYSIS**

Chapter Name	9 <sup>th</sup> Jan 1 <sup>st</sup> Shift	9 <sup>th</sup> Jan 2 <sup>nd</sup> hift	10 <sup>th</sup> Jan 1 <sup>st</sup> Shift	10 <sup>th</sup> Jan 2 <sup>nd</sup> Shift	11 <sup>th</sup> Jan 1 <sup>st</sup> Shift	11 <sup>th</sup> Jan 2 <sup>nd</sup> Shift	12 <sup>th</sup> Jan 1 <sup>st</sup> Shift	12 <sup>th</sup> Jan 2 <sup>nd</sup> Shift	Total		
	Question Number										
Some Basic Concepts in Chemistry	-	27	3	25	11	17	27	-	6		
States of Matter	14, 25	23	27	19	27	16	20	20	9		
Atomic Structure	2	12	15	24	25	23	2	25	8		
Chemical Bonding and Molecular Structure	11	29	9	-	_	_	_	_	3		
Chemical Thermodynamics	16	26	1	2, 28	3	14, 25	12, 17	13, 15	12		
Solutions	24, 30	20	20	6	15	8	30	3, 23	10		
Equilibrium	3	14, 22	26	30	6, 8	26	4, 10	27	11		
Redox Reactions and Electrochemistry	4	5	18	9, 13	5	27	-	26	8		
Chemical Kinetics	7	21	12	14	29	11	14	19	8		
Surface Chemistry	5	15	8	3	28	19	8	6	8		
Classification of Elements and Periodicity in Properties	29	30	-	-	19	13	7	29	6		
General Principles and Processes of Isolation of Metals	15	6	30	5	13	4	1	1	8		
Hydrogen	8	13	4, 11	-	17, 18	-	13	17	8		
s-Block Elements	27	16	2, 7	23	10	10	3	4	9		
<i>p</i> -Block Elements	1, 18	2	16	1, 16, 18	14	3, 5	16	7, 12, 21	14		
d- and f-Block Elements	_	9	14	17	24	29	-	-	5		
Coordination Compounds	13, 17	4, 24	5, 21	11, 29	23	1, 9	18, 25, 26	5	15		
Environmental Chemistry	9	28	19	20	4, 12	2, 28	6, 28	18, 28	12		
Purification and Characterisation of Organic Compounds	-	8	23	-	2, 16	-	-	-	4		
Some Basic Principles of Organic Chemistry	28	-	6, 29	8	-	-	11	-	5		
Hydrocarbons	26	19	13, 25	-	7, 22	12	19, 22	11, 16	11		
Organic Compounds Containing Halogens	20	-	17	-	_	6	-	10, 30	5		
Organic Compounds Containing Oxygen	10, 19, 21	3, 11, 18, 25	10, 22	4, 7, 21, 22, 26	20, 30	22, 24	5, 24, 29	8, 14, 22	24		
Organic Compounds Containing Nitrogen	22	7, 10	24	15	9	7, 15, 21	9, 15	24	12		
Polymers	23	_	-	27	26	20	23	2	6		
Biomolecules	12	1	28	10	1	18	21	9	8		
Chemistry in Everyday Life	_	_	_	-	21	30	-	-	2		
Principles Related to Practical Chemistry	6	17	_	12	_	-	_	-	3		
Total	30	30	30	30	30	30	30	30	240		

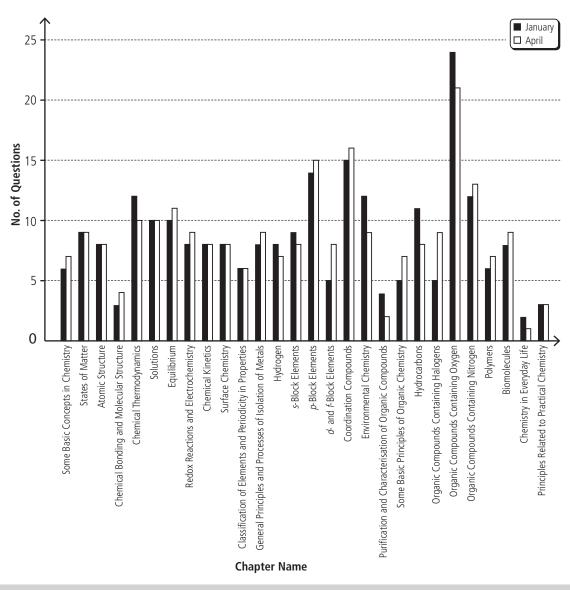
#### Solved Papers JEE MAIN APRIL 2019

## CHEMISTRY

#### **CHAPTERWISE ANALYSIS**

Chapter Name	8 <sup>th</sup> Apr 1 <sup>st</sup> Shift	8 <sup>th</sup> Apr 2 <sup>nd</sup> Shift	9 <sup>th</sup> Apr 1 <sup>st</sup> Shift	9 <sup>th</sup> Apr 2 <sup>nd</sup> Shift	10 <sup>th</sup> Apr 1 <sup>st</sup> Shift	10 <sup>th</sup> Apr 2 <sup>nd</sup> Shift	12 <sup>th</sup> Apr 1 <sup>st</sup> Shift	12 <sup>th</sup> Apr 2 <sup>nd</sup> Shift	Total		
	Question Number										
Some Basic Concepts in Chemistry	10	25	13	-	3	12	2	5	7		
States of Matter	9	2	28	2, 3	15	10	3	25	9		
Atomic Structure	13, 26	12	7	5	2	17	5	-	8		
Chemical Bonding and Molecular Structure	-	22	21	4	4	-	-	-	4		
Chemical Thermodynamics	17, 19	8	10	11	10	5	4, 25	28	10		
Solutions	29	19	6, 20	18, 22	8	3	27	14	10		
Equilibrium	18	9	-	13	6	16, 28	11	8, 10	9		
Redox Reactions and Electrochemistry	8	29	14	26	22	14	8, 15	18	9		
Chemical Kinetics	22	24	25	28	7	27	24	4	8		
Surface Chemistry	12	3	3, 15	-	25	19	14	7	8		
Classification of Elements and Periodicity in Properties	-	28	12	-	9	-	21	17, 24	6		
General Principles and Processes of Isolation of Metals	14	10	8	19, 20	5	13	17	16	9		
Hydrogen	30	1	17	-	12	6	6	1	7		
s-Block Elements	16	20	9	6	13	21	28	23	8		
<i>p</i> -Block Elements	27	6, 27	26, 30	9, 24, 29	17, 29	24, 29	19, 23	2	15		
d- and f-Block Elements	21	17	-	1	23	8, 18	-	6, 13	8		
Coordination Compounds	15, 20	14,18	2, 5	16, 27	21, 27	4, 20	13, 20	15, 19	16		
Environmental Chemistry	2, 28	23	4	10	19	1	30	30	9		
Purification and Characterisation of Organic Compounds	-	-	-	-	28	15	-	-	2		
Some Basic Principles of Organic Chemistry	1	-	27	-	18	9, 22	22	22	7		
Hydrocarbons	-	16, 30	1	-	-	11	7, 10	3, 12	8		
Organic Compounds Containing Halogens	-	26	-	8, 15	24, 26	7	12	20, 29	9		
Organic Compounds Containing Oxygen	5, 6, 23, 24	5, 11, 13	18, 22, 29	17, 21, 25	14, 20	23, 25	1, 18	9, 11	21		
Organic Compounds Containing Nitrogen	3, 4, 25	4, 7	11, 23	7, 12	6, 11	30	-	21	13		
Polymers	-	21	19	30	30	2	26	27	7		
Biomolecules	7	15	16	23	1	26	16, 29	26	9		
Chemistry in Everyday Life	_	-	_	14	_	_	-	-	1		
Principles Related to Practical Chemistry	11	_	24	_	-	_	9	-	3		
Total	30	30	30	30	30	30	30	30	240		

# Chapterwise Graphical Analysis of JEE MAIN JANUARY AND APRIL 2019



#### **Outcomes of Chapterwise Analysis**

- Physical Chemistry, Inorganic Chemistry and Organic Chemistry all three sections carry equal weightage.
- In Physical Chemistry, maximum number of questions were asked from States of Matter, Chemical Thermodynamics, Solutions, Equilibrium, Redox Reactions and Electrochemistry.
- In Inorganic Chemistry, maximum number of questions were asked from General Principles and Processes of Isolation of Metals, s- and p-Block Elements, Coordination Compounds and Environmental Chemistry.
- In Organic Chemistry, maximum number of questions were asked from Hydrocarbons, Organic Compounds Containing Halogens, Organic Compounds Containing Oxygen, Organic Compounds Containing Nitrogen and Biomolecules.
- 44.09% of questions were asked from class XI.
- 55.91% of questions were asked from class XII.