Solved Papers JEE MAIN JANUARY 2019

MATHEMATICS

CHAPTERWISE ANALYSIS

Chapter Name	9 th Jan 1 st Shift	9 th Jan 2 nd Shift	10 th Jan 1 st Shift	10 th Jan 2 nd Shift	11 th Jan 1 st Shift	11 th Jan 2 nd Shift	12 th Jan 1 st Shift	12 th Jan 2 nd Shift	Total		
	Question Number										
Sets, Relations and Functions	30	12	29	3	13	17	13	30	8		
Complex Numbers and Quadratic Equations	14, 16	8, 13, 22	24, 25	22, 25	14, 18	22, 28	7, 17	14, 28	17		
Matrices and Determinants	6, 8	24, 27	7, 14	1, 6, 19	17, 30	18, 21	11, 23	13, 29	17		
Permutations and Combinations	23	28, 29	_	-	_	24	4	11, 21	7		
Mathematical Induction	-	-	16	-	-	-	-	-	1		
Binomial Theorem and its Simple Applications	2	19	21	4, 23	12, 26	15	28	8	10		
Sequences and Series	15, 27	9, 21	5, 17	-	9, 25	2, 9, 13	10, 26	3	14		
Limit, Continuity and Differentiability	3, 9, 10, 24	2, 18, 26	8, 10, 30	2, 21, 29	2, 5, 16, 21	10, 12, 27	12, 15, 25, 27, 29	7, 10, 17	28		
Integral Calculus	1, 4, 26	10, 14, 20, 23	2, 19, 28	11, 12, 14	11, 20, 23	16, 23, 25	2, 14, 24	18, 19, 23	25		
Differential Equations	28	30	27	24, 28	28	26	21	12, 20	10		
Co-ordinate Geometry	5, 7, 17, 18, 22	1, 5, 7, 15	1, 3, 4, 9, 12, 20, 22	7, 8, 9, 27, 30	1, 3, 6, 10, 15	6, 7, 8, 14, 19	3, 8, 16, 22	1, 9, 24, 26	39		
Three Dimensional Geometry	19, 21	4	11, 13	15, 26	19, 29	5, 29	6, 30	6, 25	15		
Vector Algebra	11	16	23	13	22	4	1	16	8		
Statistics and Probability	12, 13	6, 25	18, 26	5, 10	7, 24	20, 30	18, 20	5, 15, 27	17		
Trigonometry	20, 25	3, 11	6, 15	16,17, 20	8, 27	1, 11	5, 19	4, 22	17		
Mathematical Reasoning	29	17	_	18	4	3	9	2	7		
Total	30	30	30	30	30	30	30	30	240		

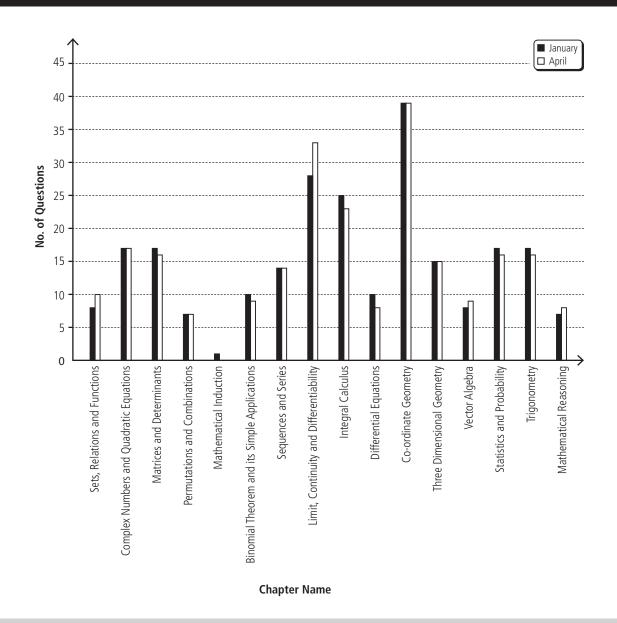
Solved Papers JEE MAIN APRIL 2019

MATHEMATICS

CHAPTERWISE ANALYSIS

Chapter Name	8 th Apr 1 st Shift	8 th Apr 2 nd Shift	9 th Apr 1 st Shift	9 th Apr 2 nd Shift	10 th Apr 1 st Shift	10 th Apr 2 nd Shift	12 th Apr 1 st Shift	12 th Apr 2 nd Shift	Total	
	Question Number									
Sets, Relations and Functions	14	6	9, 29	17, 25	19	20	7	25	10	
Complex Numbers and Quadratic Equations	1, 19	25, 27	7, 21	5, 6, 28	17, 20	12, 29	3, 21	18, 23	17	
Matrices and Determinants	2, 27	5, 17	27, 28	9, 24	5, 6	18, 22	9, 11	29, 30	16	
Permutations and Combinations	26	19	14	-	28	9	4	19	7	
Mathematical Induction	-	-	-	-	-	_	-	-	0	
Binomial Theorem and its Simple Applications	16	18	25	16	9	5	13	5, 11	9	
Sequences and Series	5, 21	13, 21	12	3, 15	15, 26	23, 24	27, 29	4	14	
Limit, Continuity and Differentiability	9, 11, 22, 25	7, 14, 24, 28	11, 16, 18, 22, 24	8, 19, 21, 29	10, 21, 22, 29, 30	1, 6, 10, 13	2, 14, 23, 26	15, 24, 28	33	
Integral Calculus	20, 23, 24	9, 10, 12	8, 10, 15	2, 11, 12	1, 3	2, 3, 25	10, 19, 22	3, 6, 16	23	
Differential Equations	30	8	2	7	16	19	8	22	8	
Co-ordinate Geometry	7, 12, 13, 28, 29	1, 4, 16, 22, 29	3, 6, 20, 30	4, 10, 18, 20, 30	8, 11, 13, 14, 25	11, 14, 26, 27, 30	1, 6, 16, 30	1, 8, 9, 10, 12, 21	39	
Three Dimensional Geometry	4, 6	23, 30	5, 17	1, 14	7, 27	4, 21	20	2, 14	15	
Vector Algebra	10	2	26	27	18	15	24, 25	17	9	
Statistics and Probability	3, 18	11, 15	13, 19	26	4, 24	7, 16	5, 18, 28	13, 26	16	
Trigonometry	8, 15	3, 26	1, 23	13, 22	2, 12	8, 17	15, 17	20, 27	16	
Mathematical Reasoning	17	20	4	23	23	28	12	7	8	
Total	30	30	30	30	30	30	30	30	240	

Chapterwise Graphical Analysis of JEE MAIN JANUARY AND APRIL 2019



Outcomes of Chapterwise Analysis

- Maximum number of questions were asked from Co-ordinate Geometry.
- Weightage of Co-ordinate Geometry is maximum for class XI and weightage of Limit, Continuity and Differentiability is maximum for class XII.
- Weightage of Mathematical Induction is minimum.
- The three chapters with maximum weightage are Co-ordinate Geometry; Limit, Continuity and Differentiability; Integral Calculus (Approximately 11 questions from these chapters in each paper).
- 52.50% of questions were asked from class XI.
- 47.50% of questions were asked from class XII.