

XI – MATHS IMPORTANT QUESTIONS**1.Sets,Relations and Functions**

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 1.1	5,6,7	8,9	4
EX 1.2	1	2,3,4	5,7,9
EX 1.3	--	6,8,12,14,15,16,17,18	2,3,7,10,19,20
EX 1.4	--	--	6,7
EXAMPLES	1.6,1.8,1.9,1.12	1.3,1.4,1.13,1.22,1.29,1.30	1.5,1.23,1.24

2.Basic Algebra

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 2.1	5	2	--
EX 2.2	1(i),(ii),6	2,3,4,5	--
EX 2.3	--	4,5,7,8,9,10	6
EX 2.4	10	2,4,5,6,7	--
EX 2.5	--	1,2	--
EX 2.6	--	2,3	4
EX 2.7	--	1,2	--
EX 2.8	--	--	1,2,3
EX 2.9	--	1,2	3 to 12
EX 2.10	--	--	4,5
EX 2.11	1	2,3,4	7,8
EX 2.12	2,3,4,6	5,7,10,11,12	--
EXAMPLES	2.4,2.5,2.7,2.34,2.35, 2.36,2.38,2.39	2.8,2.9,2.14,2.25,2.27, 2.33,2.37,2.40	2.12,2.15,2.23,2.24,2.26,2.30

3.Trigonometry

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 3.1	2	3,5,7,10	4,8,11
EX 3.2	1,2,3,6	7,9,10,11	--
EX 3.3	1	3(iii),4,6	--
EX 3.4	5,9,11,17	3,8,10,13,22,23,24	16,19,25
EX 3.5	1	3,4,6,7,8	9,10,11
EX 3.6	1,2	5,6,8,11,13	3,4,12,14
EX 3.7	--	--	1(i),(ii),4
EX 3.8	1	2(i),(ii)	3(i),(vi),(vii)
EX 3.9	--	--	3,4,7(v),11
EX 3.10	2,4,5	8,9,14,15	11,12,16
EX 3.11	1	2	--
EXAMPLES	3.12,3.31,3.67	3.13,3.18,3.19,3.29,3.60, 3.68	3.25,3.32,3.36,3.38,3.39(i), 3.71

4. Combinatorics and Mathematical Induction

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 4.1	2(i),3,5,12,13,16	7,8,10,11	12
EX 4.2	3 to 7,9 to 14	1,2,8	15 to 20
EX 4.3	1,2,12,13,15,22,25	5,23,24	3,8,14,17 to 20
EX 4.4	--	--	1 to 15
EXAMPLES	4.15,4.48,4.52, 4.55,4.60	4.24,4.35,4.37,4.40	4.42,4.43,4.56,4.58,4.61,4.62, 4.63,4.65,4.66

5. Binomial Theorem, Sequences and Series

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 5.1	1(i)	2(i),9,12,16	6,7,13,14,15
EX 5.2	2,6	5,7	4,8,9,10
EX 5.3	--	11	1,2,3(i),5,7,10
EX 5.4	5,6	1,7	2,3,4,8,10
EXAMPLES	5.21	5.13,5.18,5.20,5.24	5.12,5.14,5.15,5.16,5.17, 5.25

6. Two Dimensional Analytical Geometry

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 6.1	1,2,4	5,7,8,9,10	12,14,15
EX 6.2	1	2,3,8,9	6,12,13,14,15
EX 6.3	1,2,3,4,5,12,14	7,8,15,16	10,11,17,18
EX 6.4	1,2,3	6,7(iii),8,9,14,16,18	4,5,10,17
EXAMPLES	6.3,6.8,6.14,6.16, 6.20	6.5,6.6,6.11,6.15,6.17,6.18, 6.22,6.2,6.27,6.32,6.35,6.36, 6.41	6.10,6.19,6.21,6.23,6.38, 6.39

7. Matrices and Determinants

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 7.1	1,17(i),19	2,6,7,11,12,20(i),(ii),23	17(ii)
EX 7.2	1,2,5,7,17,19	9,14,21	3,4,8,10,11,12,13
EX 7.3	--	--	1,2,3,4,5,6
EX 7.4	1	2,4(ii),5,6	--
EXAMPLES	7.5,7.16,7.20,7.33	7.11,7.17,7.18,7.19,7.21, 7.28,7.29,7.30,7.31,7.34	7.13,7.22,7.24,7.25,7.26

8. Vector Algebra

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 8.1	2,4,7	5,6,9,10	11,12
EX 8.2	1(ii),2(ii),3(iv),(v) 5,8,16	4,6,7,11,13,15,17	9,10
EX 8.3	2(ii),3,6,8,11	4,5,7,12,13	10,11
EX 8.4	1,2	3,5,6,7,8,10	9
EXAMPLES	8.7,8.14	8.9,8.15,8.17,8.18,8.19, 8.21,8.23,8.24	Theorem:8.1,8.3,8.4

9.Differential Calculus-Limits and Continuity

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 9.1	--	22	16,23
EX 9.2	2,3,4	8,14	10,11,15
EX 9.3	1	3,7,9,10	2,8
EX 9.4	2,3,7,8,10,13,15,21	4,6,11,16,19,22,23, 26,27,27	9,18,20,24
EX 9.5	1,2(i)	2(iii),(vii),(viii),(ix),12,13	9,10,11(ii),(iii),14
EXAMPLES	9.22,9.24	9.15,9.18,9.20,9.25,9.27,9. 28,9.31,9.34,9.37	9.5,9.6,9.26

10.Differentiability and Methods of Differentiation

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 10.1	--	--	6
EX 10.2	7,8,9,10,11, 12,13,14	15,16,17,18,19	--
EX 10.3	3,5,9,12,18, 21,22,13	8,13,14,16,17,19, 20,25,26,27	28,29,30
EX 10.4	--	1,4,7,9,10,11,13,15, 17,18,21	20,22,25,24,26,27,28
EXAMPLES	10.26	10.7,10.13,10.22,10.24, 10.28,10.34,10.35,10.36	10.29,10.30

11.Integral Calculus

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 11.1	1,2,3,4	--	--
EX 11.2	1,2,3,4,5	--	--
EX 11.3	--	1,4,5,6	--
EX 11.4	--	2,3	4,5
EX 11.5	8	5,10,13,14,15,16,19	17
EX 11.6	--	5,6,7,8,10,11,14,16	--
EX 11.7	--	1(i),(iv),3(ii),(iv)	3(i),(ii)
EX 11.8	1(ii),2(iii)	--	1(i)
EX 11.9	--	1,3,5,6	--
EX 11.10	--	1(iii),3(i),(iii)	2(i),(ii)
EX 11.11	--	1(ii),(iii),2(ii)	1(i),2(i),(ii)
EX 11.12	--	1(ii),(iii),2	1(i)
EXAMPLES	11.8	11.10,11.12,11.13,11.19,11.22, 11.31,11.35,11.37(ii)	11.29,11.37(iii), 11.40(i),(iii)

12.Introduction To Probability Theory

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 12.1	4,6,8,9,10	--	--
EX 12.2	2	1,4,5,6	--
EX 12.3	1,2,3,4,5	8,10,11	6,7,12
EX 12.4	--	--	1,2,3,4,5
EXAMPLES	12.11	12.2,12.4,12.6,12.7,12.23	12.22,12.27,12.29