

XII – MATHS IMPORTANT QUESTIONS

1.Applications of Matrices and Determinants

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 1.1	1,2,6,9,12	5,7,8,11,13	3,4,14
EX 1.2	1(ii),(iii)	1(v),2-(i),(ii),(iii),3(i)	3(ii)
EX 1.3	1(i)	1-(ii),(iii),(iv)3,4	1(iv),2,5
EX 1.4	1(i),(ii)	2,3	1(iv),4,5
EX 1.5	--	--	1(ii),2,3,4
EX 1.6	--	--	1-(i) to (iv) ,2,3
EX 1.7	--	--	1-(i) to (ii) ,2,3
EXAMPLES	1.2,1.4,1.7,1.11,1.13, 1.22,1.25	1.3,1.8,1.19	1.10,1.12,1.24,1.26,1.28,1.34, 1.37,1.38,1.39

2.Complex Numbers

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 2.1	4,6	--	--
EX 2.2	1(v)	2(ii),3	--
EX 2.3	2,3	--	--
EX 2.4	2(ii),(iii),3,5	4,6	7
EX 2.5	1,3,4,5,10	8	2,6,7,9
EX 2.6	3(i),5(i)	1,3(ii),4(ii),5(ii)	2
EX 2.7	1(ii),(iii)	2(ii),3,4,5	6
EX 2.8	1	3,5,8	2,4,6
EXAMPLES	2.1(iv,v),2.4,2.5,2.10 (iii),2.17,2.19	2.2,2.12,2.13,2.14,2.16, 2.26,2.28,2.30	2.8,2.15,2.27,2.31,2.32,2.33,2. 35

3.Theory of Equations

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 3.1	8,11,12	1,2,6,9,10	3,4
EX 3.2	3,4	1,2	5
EX 3.3	1,7	2,3,6	4,5
EX 3.4	--	--	1,2
EX 3.5	--	1,2,4	3,5,6,7
EX 3.6	1,3,4	2,5	--
EXAMPLES	3.2,3.4,3.9,3.30, 3.31	3.5,3.7,3.10,3.17,3.18, 3.23,3.27	3.6,3.14,3.15,3.28

4.Inverse Trigonometry Functions

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 4.1	1,2,3,5,7	4	6
EX 4.2	2,3,5	7,8	6(i)
EX 4.3	1,3	--	4-(i),(ii),(iii)
EX 4.4	1	2(iii)	--
EX 4.5	1(i),(iii),6	2(i),3,4,5	7,8,9,10
EXAMPLES	4.6,4.9,4.12	4.10,4.14,4.15	4.4,4.7,4.11,4.22,4.28

5. Two Dimensional Analytical Geometry-II

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 5.1	2,8,11	3,4,10,12	6
EX 5.2	1(ii),(iv),2(i),(ii), 3(i)	6,7,2(iii),(iv),3(iii)	4(iv),8-(v),(vi)
EX 5.3	1,2,4,6	--	--
EX 5.4	2,4,6	1,7,8	3
EX 5.5	--	--	1 to 10
EXAMPLES	5.9,5.12,5.14,5.27	5.6,5.7,5.8,5.13,5.21,5.29,5.30, 5.36,5.37,5.38,5.39	5.10,5.23,5.31,5.38,5.39

6. Applications of Vector Algebra

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 6.1	3,4	6,8,12,13,14	9,10
EX 6.2	3,6	5	--
EX 6.3	3	1,2,5,8	4
EX 6.4	1,2,5	3,4,7,8,9	--
EX 6.5	--	1,3	2,4,5,6,7
EX 6.6	--	1 to 6	--
EX 6.7	--	--	1 to 7
EX 6.8	--	3	1,2
EX 6.9	3,4,5,6	1	2,7
EXAMPLES	6.28,6.29,6.30	6.1,6.2,6.6,6.10,6.16,6.19,6.25, 6.37	6.3,6.5,6.7,6.23,6.43, 6.44,6.54,6.55

7. Applications of Differential Calculus

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 7.1	1	2,3,4,8,12	8,9,10
EX 7.2	1,5(i),(ii),(iv)	2,3,4	6,7,8,9,10
EX 7.3	1,3	2,4,5,6,7,8,9,10	--
EX 7.4	1(i)	1(ii),2,3,4	--
EX 7.5	1,2,3	4,5,6,7,8,10,11	12
EX 7.6	1(i)	1(iii),(iv),2(i),(iv)	2(v)
EX 7.7	--	1(i),2(i),(ii)	1(i),(iii),3
EX 7.8	--	1,2,3	4-12
EX 7.9	--	1(i),(iv)	2 (i-iv)
EXAMPLES	7.2,7.3,7.34,7.52	7.5,7.6,7.8,7.11,7.12,7.13, 7.29,7.30,7.32,7.36,7.37,7.38, 7.42,7.45,7.53,7.54,7.56,7.67	7.7,7.9,7.13,7.14,7.15,7.17, 7.18,7.31,7.60,7.61,7.62,7.63, 7.64,7.65,7.69,7.70

8. Differentials and Partial Derivatives

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 8.1	3	1,2(i)(iii)	4,5,6,7
EX 8.2	1,2,3	6,7,8,10,11	4,5,9
EX 8.3	1,3,4	6,7	5
EX 8.4	--	2(ii),4,8	6,7,8
EX 8.5	--	1,2	--
EX 8.6	--	3,6,8	7,9
EX 8.7	1	--	2,3,4,5,6
EXAMPLES	8.1	8.5,8.7,8.14,8.17	8.3,8.4,8.9,8.12,8.13,8.22

9.Applications of Integration

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 9.1	--	1,2,3	--
EX 9.2	--	--	1(i),(ii)
EX 9.3	2(i),(ii)	2(iii)	2(iv)-(xi)
EX 9.4	--	1,3	--
EX 9.5	--	1	--
EX 9.6	1(i),(ii),(viii)	1(iv),(vii)	--
EX 9.7	1(i)	1(ii),2	--
EX 9.8	--	1,2	3 to 10
EX 9.9	--	1,2,3	4,5,6
EXAMPLES	9.8,9.9,9.12,9.24	9.15,9.25,9.28,9.29,9.46	9.3,9.4,9.19,9.21,9.27,9.30, 9.36,9.40,9.54,9.55,9.56,9.59, 9.60,9.62,9.63,9.66

10.Ordinary Differentials Equations

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 10.1	1(ii),(v),(viii),(ix)	--	--
EX 10.2	1(iii),(iv)	2	--
EX 10.3	2	4,5,6,7,8	--
EX 10.4	2	3,4,5,6,7	--
EX 10.5	--	--	1,3,4(ii),(v),(vi),(viii),(ix),(x)
EX 10.6	--	1,4	2,3,5,6,7,8
EX 10.7	--	--	1,2,4,6,7,8,10,11,12,14,15
EX 10.8	--	--	1,2,3,4,5,6,7,8,9,10
EXAMPLES	10.5	10.6,10.8,10.10,10.15	10.12,10.19,10.21,10.25, 10.27,10.28,10.29,10.30

11.Probability Distributions

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 11.1	1,2	3,4	5
EX 11.2	1	3	2,4,5,6,7
EX 11.3	1	2	3,4,5,6
EX 11.4	3	2,4,8	1(i),(iv),6,7
EX 11.5	1	3	2,5,6
EXAMPLES	11.1	11.2,11.5,11.3,11.13	11.6,11.7,11.8,11.9, 11.10,11.11,11.12, 11.14,11.15,11.17

12.Discrete Mathematics

EXERCISE	2 MARKS	3 MARKS	5 MARKS
EX 12.1	1,2,3,4	6,7,8	5,9,10
EX 12.2	1,2,3,4,5,6	7(i),(ii),8,9,10,11	7(iii),(iv)12,13,14,15
EXAMPLES	12.5,12.8	12.6	12.4,12.7,12.9,12.10, 12.19