

Details of Number of Questions - XII STD

CHAPTER No.	10 Marks	6 Marks	3 Marks	1 Marks		Qns. Which are NOT listed in COME BOOK		No. of times Compulsory Questions asked upto OCT 2017	
				BOOK BACK	COME BOOK	EXAMPLE	EXERCISE	10 Marks	6 Marks
1	33	35	14	19	23	1.9, 1.10, $(A^T)^{-1} = (A^{-1})^T$	-----	0	2
2	20	68	59	35	39	2.1(i), (ii), (iii), 2.2(i), (ii), 2.3, 2.4, 2.5, 2.18, 2.19	2.1-1, 3, 4, 9, 10, 11, 14(i), (ii), 2.2-5, 2.3-1, 2, 5, 6 2.6-1, 2.8-2, 3, 2.9-5,6 2.11-5(i), (ii)	3	6
3	16	46	20	29	46	3.1, 3.2, 3.3, 3.7	3.1-1(iii), 2(iii)	3	10
4	28	102	22	38	92	4.7(i), (ii), 4.19, 4.28(i), (ii), 4.30(i), (ii), 4.31(i), (ii), 4.46, 4.47, 4.49, 4.50	4.1-2(i), (ii), 4.2-2, 4(i), (iii), 5(i), (ii), 4.3-2(i), (ii), 3(i), 5(i), (ii), 4.4-7(i), (ii), (iii), 4.5-1(i), 3(i), (ii) & 4.6-6(i)	12	9
5	44	98	34	44	40	5.1, 5.3, 5.4, 5.5 & 5.29	-----	14	8
6	11	26	9	15	44	6.1, 6.11, 6.12, 6.13, 6.14	6.1-1, 6.2 - 2, 3, 4, 5	0	4
7	23	55	18	19	23	-----	7.3 - 4(ii)	12	2
8	26	54	12	26	19	8.1(i, ii, iii, iv)	8.1-1(i to ix), 2(iii, viii, x)	18	4
9	15	31	11	20	39	9.1, 9.2, 9.3, 9.4(i, ii), 9.8, 9.9, 9.28, 9.29, 9.30	-----	7	9
10	12	39	37	26	15	-----	-----	3	18
TOTAL	228	554	236	271	380	54	59	72	72

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DETAILS OF HSC (10 MARK) PUBLIC QUESTIONS FROM MARCH 2006 TO OCTOBER 2017

1. DETERMINANTS & MATRICES (9) Underline implies Compulsory Questions							
S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR	S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR
1	1.1 - 3			18	1.5 - 2	5	J6, M7, J7, O12, J15,
2	1.1 - 6			19	1.5 - 3	3	O9, M11, J14,
3	1.1 - 7			20	1.4		
4	1.1 - 9			21	1.8	1	O6,
5	1.2 - 3	1	J16,	22	1.18(1)	2	O15, O16,
6	1.2 - 4			23	1.18(2)		
7	1.2 - 5	1	O13,	24	1.18(4)	1	M17,
8	1.4 - 4			25	1.19	2	M10, M14,
9	1.4 - 5	1	M15,	26	1.21		
10	1.4 - 6			27	1.22	1	M8,
11	1.4 - 7			28	1.23		
12	1.4 - 8	3	J12, J17, O17	29	1.24	2	M6, O8,
13	1.4 - 9	2	J8, O10,	30	1.25		
14	1.4 - 10	4	O7, J10, J11, O14,	31	1.26	2	M12, J13,
15	1.5 - 1(i)	1	M13,	32	1.27		
16	1.5 - 1(ii)	1	M16,	33	1.28	1	M9,
17	1.5 - 1(v)	1	J9,	OUTSIDE the book		1	O11,(Determinant Method)
		15				21	

2. VECTOR ALGEBRA (3) Underline implies Compulsory Questions							
1	2.2 - 4	7	M6,M8,J11,M14,O14, M17,O17,	12	2.8 - 13	4	J9, M13, O13, M17,
2	2.4 - 7	7	J7,O7,O10,M12,O15,O16, J17	13	2.8 - 14	2	M10, M15,
3	2.5 - 5	4	M7, O8, O9, J16,	14	2.16	4	O6, J8, O13, M15,
4	2.5 - 12	4	M9, O11, O12, M16,	15	2.17	2	J12, J13,
5	2.7 - 3	3	J6, J10, J11,	16	2.29	4	O8, M11, M13, J14,
6	2.8 - 7	1	M14,	17	2.44	3	J7, J9, J15,
7	2.8 - 8	1	J12,	18	2.50	4	M10, O11, J16, O16,
8	2.8 - 9	1	J13,	19	2.51	5	M7,M9,J10,O14,J17
9	2.8 - 10	1	J14,	20	2.52	1	O9,
10	2.8 - 11	8	M6, O6, O7, J8, M12, J15, O15,O17,	OUTSIDE the book		4	J6, M8, O10, O12, Vector & Cartesian Equation
11	2.8 - 12	2	M11, M16,			33	
		39					

DETAILS OF HSC (10 MARK) PUBLIC QUESTIONS FROM MARCH 2006 TO OCTOBER 2017

3. COMPLEX NUMBERS (3) Underline implies Compulsory Questions

S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR	S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR
1	3.2 - 8(i)	2	M10, J13,	10	3.5 - 5	5	O7, <u>M8</u> , M11, O15, <u>O17</u>
2	3.2 - 8(iii)	1	J12,	11	3.11(i)	1	M16,
3	3.2 - 8(v)			12	3.11(ii)	1	M13,
4	3.4 - 5	3	M7, <u>O9</u> , O16,	13	3.22	3	M6, O12, O14,
5	3.4 - 6	6	<u>O6</u> , O8, M9, M12, J15, <u>J17</u>	14	3.23	2	J6, J11,
6	3.4 - 8	1	J14,	15	3.24	1	J9,
7	3.4 - 10	1	O10,	16	3.25	1	J7,
8	3.5-1(iii)	1	O13,	OUTSIDE the book		3	M14(LOCUS), M15(ROOTS), J16 (DM Theorem)
9	3.5-4(ii)	4	J8, J10, O11, <u>M17</u> ,			17	
		19					

4. ANALYTICAL GEOMETRY (12) Underline implies Compulsory Questions

S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR	S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR
1	4.1-2(iv)	2	O6, M7,	15	4.6 - 3	10	O6, M7, J7, M8, O8, O10, M11, O12, <u>M17</u> , <u>O17</u> ,
2	4.1-2(v)	2	M10, M16,	16	4.7(iv)	3	J8, O10, O14,
3	4.1 - 5	2	J6, J15,	17	4.7(v)	2	M15, <u>O17</u> ,
4	4.2-6(ii)			18	4.8	2	M9, J16,
5	4.2-6(iv)	3	O12, M13, J16,	19	4.10	7	M6, J9, J10, <u>J12</u> , <u>O12</u> , M14, <u>M17</u> ,
6	4.3-5(iii)	2	<u>M10</u> , J13,	20	4.12	3	O9, M12, <u>O13</u> ,
7	4.3-5(iv)	6	M8, <u>O8</u> , O9, J10, M12, M14,	21	4.13	5	M8, M13, J13, O15, O16,
8	4.2 - 7	2	M11, M15,	22	4.14	3	O7, O11, <u>J14</u> ,
9	4.2 - 8	5	J7, <u>J8</u> , J12, J14, O14,	23	4.31(iv)	3	<u>M6</u> , J6, O15,
10	4.2 - 9	4	O9, <u>J10</u> , O11, M16,	24	4.32	3	O6, O13, <u>J17</u>
11	4.2 - 10	3	<u>O10</u> , <u>J11</u> , M14,	25	4.33	3	M7, M10, <u>M17</u> ,
12	4.4 - 5	7	J9, M13, O13, O14, J16, O16, <u>J17</u>	26	4.35	5	O7, O8, M12, J15, <u>O17</u> ,
13	4.4 - 6	2	J13, M16,	27	4.56	1	O11,
14	4.5-2(ii)	7	M6, <u>J6</u> , J8, M9, J11, M15, O15	28	4.57	1	J15,
				OUTSIDE the book		4	J7, M11, J11, <u>J17</u> (PARABOLA)
						3	M9, J9, O16(ELLIPSE)
						3	O7, J12, J14, (HYPERBOLA)
		47				61	

DETAILS OF HSC (10 MARK) PUBLIC QUESTIONS FROM MARCH 2006 TO OCTOBER 2017

5. DIFFERENTIAL CALCULUS - I (14) Underline implies Compulsory Questions

S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR	S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR
1	5.1 - 1	3	<u>M13</u> , O13, J16,	23	5.7	1	O9,
2	5.1 - 3	1	J13,	24	5.8	2	<u>J9</u> , O17,
3	5.1 - 5	2	O11, J14,	25	5.9	4	M6, M8, J8, J10,
4	5.1 - 6	2	M12, <u>M15</u> ,	26	5.13	1	M16,
5	5.1 - 8	2	J11, <u>J17</u>	27	5.14		
6	5.1 - 9	1	O16,	28	5.15		
7	5.2 - 5	1	<u>M17</u> ,	29	5.17	2	M7, O8,
8	5.2 - 7	3	O7, M10, <u>M14</u> ,	30	5.18	1	J12,
9	5.2 - 10	3	O6, M11, O14,	31	5.20	1	O10,
10	5.2 - 11	3	M9, J15, <u>O15</u> ,	32	5.34	1	O9,
11	5.6 - 11	1	O10,	33	5.35		
12	5.9-3(iii)			34	5.48(a)	1	<u>J16</u> ,
13	5.9-3(iv)			35	5.51	1	M15,
14	5.9-3(v)			36	5.52		
15	5.9-3(vi)			37	5.53	4	J12,O12,O14, <u>M17</u> ,
16	5.10 - 3	1	O11,	38	5.54	1	M9,
17	5.10 - 4	2	<u>J10</u> , J13,	39	5.55	2	M10, J15,
18	5.10 - 5	2	J11, M13,	40	5.56	5	J6, J7, O7, M8, O15,
19	5.11 - 4	1	J6,	41	5.57	4	M12,M14,J14, <u>J17</u>
20	5.11 - 5			42	5.58	2	M11, <u>O17</u> ,
21	5.11 - 6	5	M7, <u>J7</u> ,J9,O13, <u>O16</u> ,	43	5.63		
22	5.6	1	O12,	44	5.64	1	<u>M16</u> ,
Deleted Problems		2	M6, <u>O6</u>,	OUTSIDE the book		1	O8, (Maximam & Minimum values)
5.5 - 4		1	J8, (Transferred from 10 mark to 6 mark)				
		37				35	

6. DIFFERENTIAL CALCULUS - II (0) Underline implies Compulsory Questions

S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR	S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR
1	6.1-3(iii)	1	M15,	7	6.9	4	J9, O13, J16, O16,
2	6.2 - 1	9	O6, J7, O7, J8, O8, J10, M11, M12, <u>O17</u> ,	8	6.10	5	M6, M9, J11, O12, J15,
3	6.3-1(ii)	2	J12, M17,	9	6.18		
4	6.3-1(iii)	1	M16,	10	6.20	3	J6, O10, M14,
5	6.3-1(iv)	1	M10,	11	6.22	3	M7, M8, J14,
6	6.3-5(i)	4	O9, O11, O15, <u>J17</u>	OUTSIDE the book		2	M13, O14, (Verify II Order Partial Diff.)
						1	J13, (Euler's Theorem)
		18				18	

DETAILS OF HSC (10 MARK) PUBLIC QUESTIONS FROM MARCH 2006 TO OCTOBER 2017

7. INTEGRAL CALCULUS (12)				8. DIFFERENTIAL EQUATIONS (18)			
S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR	S. NO.	EXERCISE & EXAMPLES	No. of times asked	MONTH & YEAR
1	7.4 - 4	2	J7, <u>M9</u> ,	1	8.2 - 7	3	O8, O11, J16,
2	7.4 - 7	4	O7, M11, <u>M13</u> , M16,	2	8.3 - 5	3	O7, M15, M16,
3	7.4 - 8	3	J12, M15, O17 ,	3	8.4 - 3	3	J12, <u>J13</u> , <u>O14</u> ,
4	7.4 - 9	3	M6, M14, O16,	4	8.4 - 5	1	J14,
5	7.4 - 15	3	M8, <u>O11</u> , J16,	5	8.4 - 7		
6	7.5 - 1	4	J6, O8, O13, J17	6	8.4 - 9	3	<u>M10</u> , O12, M14,
7	7.5 - 2	7	M7, M9, O10, J13, O15, M17 , O17 ,	7	8.5 - 6	3	J6, M8, J11,
8	7.5 - 3	4	O9, J10, <u>M12</u> , M14,	8	8.5 - 10	5	M6, <u>J8</u> , M9, M13, O16,
9	7.5 - 4	4	O6, J9, <u>O12</u> , O14,	9	8.5 - 11	5	<u>M7</u> , <u>O8</u> , <u>J9</u> , J15, O15,
10	7.25	4	O6, O8, J9, <u>J15</u> ,	10	8.6 - 1	5	<u>M6</u> , J9, M10, O12, O16,
11	7.26			11	8.6 - 2	7	O6, <u>J7</u> , <u>J8</u> , <u>O10</u> , <u>J12</u> , <u>M15</u> , J17
12	7.27	2	O9, O11,	12	8.6 - 3	4	<u>O9</u> , <u>O13</u> , <u>J15</u> , M17 ,
13	7.28			13	8.6 - 4	4	M8, J10, M14, J14,
14	7.29	3	M10, O12, J16,	14	8.6 - 5	3	M12, J13, O14,
15	7.30	2	<u>J13</u> , <u>O14</u> ,	15	8.7	2	O10, M17 ,
16	7.31	1	M17 ,	16	8.10	2	M12, M13,
17	7.32			17	8.13		
18	7.33	3	O10, J14, J17	18	8.14	1	M11,
19	7.34	2	J10, J11,	19	8.15	1	J17
20	7.37	2	M8, M13,	20	8.18	1	M7,
21	7.38	2	J8, J11,	21	8.19	1	J7,
22	7.39	3	<u>M11</u> , <u>J14</u> , <u>O16</u> ,	22	8.34	2	<u>M11</u> , O15,
23	7.40	5	O7, J12, O13, M15, M16,	23	8.35	1	<u>O7</u> ,
7.12		2	J6, J7 (Transferred from 10 mark to 6 mark)	24	8.37	3	<u>J11</u> , <u>J16</u> , O17 ,
		3	M7, J8, M12, (AREA)	25	8.38		
OUTSIDE the book		4	M6, M10, J15, O15, (VOLUME)	26	8.39	3	J6, M9, O11,
		72		OUTSIDE the book		4	O6, O9, M16, O17, (Second Order D.E.)
						1	J10, (Linear D.E.)
						1	O13, (Variable Separable)
						72	

DETAILS OF HSC (10 MARK) PUBLIC QUESTIONS FROM MARCH 2006 TO OCTOBER 2017

9. DISCRETE MATHEMATICS (7)			
S. NO.	EXERCISE & EXAMPLES	No.of times asked	MONTH & YEAR
1	9.4 - 5	6	M6, J6, <u>O7</u> , <u>O10</u> , O12, O14,
2	9.4 - 6	3	J12, M13, M17 ,
3	9.4 - 7	2	O11, J14,
4	9.4 - 8	3	J7, M9, J16,
5	9.4 - 9	2	M7, J9,
6	9.4 - 11	1	M8,
7	9.4 - 12	1	O13,
8	9.18	3	O8, J10, <u>M16</u> ,
9	9.21	2	J13, M15,
10	9.22		
11	9.23	3	J8, <u>M12</u> , J15,
12	9.24	3	O6, O9, <u>O15</u> ,
13	9.25	2	J11, <u>M14</u> ,
14	9.26	3	M10, O16, J17
15	9.27	2	M11, <u>O17</u> .
OUTSIDE the book			NIL
		36	

10. PROBABILITY (3)			
S. NO.	EXERCISE & EXAMPLES	No.of times asked	MONTH & YEAR
1	10.1 - 7	3	J11, J14, O17 ,
2	10.4 - 5	5	J6, O8, O9, M11, J15,
3	10.5 - 5	4	M6, <u>M9</u> , M12, J16,
4	10.5 - 8	6	<u>M8</u> , J9, M10, O12, O15, J17
5	10.2	3	O6, O10, M15,
6	10.3	3	M7, J7, O13,
7	10.10	1	O14,
8	10.26	1	J12,
9	10.29	2	J8, M14,
10	10.30	4	J10, <u>O11</u> , M13, M16,
11	10.31	2	O7, O16,
12	10.32	1	J13,
OUTSIDE the book		1	M17 (p.d.f.)
		36	

DETAILS OF HSC (6 & 3 MARKS) PUBLIC EXAMINATION QUESTIONS_MARCH 2006-OCT 2017

1.DETERMINANTS & MATRICES - 6 marks (2)						9.DISCRETE MATHEMATICS - 6 marks (2)					
S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR
1	1.1 - 2	M7, M9, M13,	19	1.4 - 3	O6, <u>O9</u> ,	1	9.2-7	J14, M15,	17	9.6	M8,
2	1.1-4(i)		20	1.5-1(iii)	O7, M10, J16,	2	9.2-9		18	9.7	M6,
3	1.1-4(ii)		21	1.5-1 (iv)	O11, O13,	3	9.2-10	M9, M13, <u>O15</u> ,	19	9.10(i)	O9,
4	1.1-4(iii)		22	1.2		4	9.3-1(i)		20	9.10(ii)	M12, M16,
5	1.1-4(iv)		23	1.3		5	9.3-1(ii)		21	9.11	
6	1.1-4(v)		24	1.5 (iv)	O9,O11, M17 ,	6	9.3-1(iii)	O9, J10, J13,	22	9.12	O8,
7	1.1 - 5(i)	J6,J12,J13,J15, J17	25	1.6	J9, J10,	7	9.3-1(iv)	M17 ,	23	9.13	
8	1.1 - 5(ii)	J14,	26	1.7	J8,O8,O10,O12	8	9.3-1(v)	J8, M11,	24	9.14	O14,
9	1.1 - 8	M8,M11,M16, O16, O17 ,	27	1.12		9	9.3-2	M13,	25	9.15	J11,
10	1.1 - 10	M6, M14,	28	1.13		10	9.3-3	O6,J9,J15,	26	9.16	
11	1.2 - 1	J7, M12, M15,	29	1.14	J7,	11	9.3-4	M7,J7,O8,M10, <u>J11</u> ,O11,O12, M14,	27	9.17	<u>J16</u> ,
12	1.2 - 2		30	1.15	M15,	12	9.3-5	O10,O16, J17	28	9.19	O7,
13	1.3 - 1		31	1.16	O6,M7,O16, J17, O17 ,	13	9.3-6	<u>M9</u> , J16, O17 ,	29	9.20	<u>M11</u> , O13, <u>M15</u> , O17 ,
14	1.3 - 2		32	1.17 (2)	J6, M11,	14	9.3-7	J6,J12,O13,O14,	30	Canc. Law	<u>M6</u> , <u>M8</u> ,O10,M14,
15	1.3 - 3	J8,	33	1.18 (3)	M8,M9,M12, O13	15	9.4(iv)	O6,	31	Rev. Law	M7, <u>J9</u> ,M10,J12, O12,J14,J15,O15, J17
16	1.3 - 4	J11,O12, M17 ,	34	1.18 (5)	J13, M16,	16	9.5	J7,O11, M17 ,	Outside the book		
17	1.3 - 5	O8, O15,	35	Law of Inverses	J11, O14,				Qns. Not listed in COME BOOK (3 Marks)		
18	1.3 - 6	<u>M6</u> , J10	Outside the book		J9,M10,O10,J12,M13,M14,J14				1.9, 1.10, $(A^T)^{-1} = (A^{-1})^T$		
1. DETERMINANTS&MATRICES - 3 marks (0)						9. DISCRETE MATHEMATICS - 3 marks (0)					
1	1.1-1(i)		9	1.5(iii)		1	9.2(1)		7	9.2(8)	
2	1.1-1(ii)		10	1.11		2	9.2(2)		8	9.4(iii) & 9.9(ii)	J6,
3	1.1-1(iii)		11	1.17(1)		3	9.2(3)		9	Theorem 1	J13, O16,
4	1.4 - 1		12	1.17(3)	O15,	4	9.2(4)		10	Theorem 2	J13, O16,
5	1.4 - 2		13	1.20	O15,	5	9.2(5)		11	Theorem 4	
6	1.1		14	$(A^T)^{-1} = (A^{-1})^T$	O7,	6	9.2(6)		Outside the book		
7	1.5(i)	O7,	Outside the book		Nil	Underline implies Compulsory Questions					
8	1.5(ii)		Outside the book		Nil						

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6. DIFFERENTIAL CALCULUS - 6 marks (4)						7. INTEGRAL CALCULUS - 6 marks (2)					
S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR
1	6.1-3(i)	O9, M14,	14	6.3-5(ii)	<u>J10</u> ,	1	7.1 - 3		29	7.4-12	<u>M17</u> ,
2	6.1-3(ii)	<u>J12</u> ,	15	6.3-5(iii)	J16,	2	7.1 -4		30	7.4-13	
3	6.1-3(iv)	<u>J13</u> ,	16	6.3-5(iv)	M11, M16,	3	7.1 - 6		31	7.4-14	J8,
4	6.1 - 4		17	6.2		4	7.1 - 7		32	7.4-16	
5	6.1 - 5	<u>M17</u> ,	18	6.3	J6, O14, J15,	5	7.1 - 8	M14,	33	7.7	<u>M10</u> ,
6	6.3-1(i)		19	6.5	O11, O12,	6	7.1 - 9		34	7.8	
7	6.3-3(i)		20	6.6		7	7.1 - 10		35	7.9	J16,
8	6.3-3(ii)	O16,	21	6.7	M13,	8	7.2 - 3		36	7.10	
9	6.3-3(iii)	O6,	22	6.15	M7, J7, <u>J8</u> , O8, O10,	9	7.2 - 4		37	7.11	J7, M8, M9, J12, O12,
10	6.3-3(iv)		23	6.16	M6, J11,	10	7.2 - 5		38	7.12	
11	6.3-4(i)	<u>O17</u> ,	24	6.17	J9, J14,	11	7.2 - 7	J10, M11,	39	7.13	
12	6.3-4(ii)	M10, M12,	25	6.19	M8, M9, O15,	12	7.2 - 8	M6,M7,J9,J15,	40	7.14	M16,
13	6.3-4(iii)		26	6.21	O7, <u>J17</u>	13	7.2 - 9		41	7.15(iii)	O6,
6. DIFFERENTIAL CALCULUS - 3 marks (0)						14	7.2 - 10	O7, O10, M12, M15, O15,	42	7.15(iv)	
1	6.1-2(i)		6	6.3-2(i)	O13,	15	7.3-1(i)		43	7.16	M13, J13,
2	6.1-2(ii)	O13,	7	6.3-2(ii)		16	7.3-1(ii)		44	7.17(i)	
3	6.1-2(iii)		8	6.4		17	7.3-3(i)	<u>J17</u> ,	45	7.17(ii)	
4	6.1-2(iv)		9	6.8		18	7.3-3(ii)		46	7.18	
5	6.1-2(v)		Outside the book (6 MARK)		M15,	19	7.3-4(i)		47	7.19	
7. INTEGRAL CALCULUS - 3 marks (0)						20	7.4-1(i)		48	7.20	
1	7.1 - 1	O14,	10	7.3-2(ii)		21	7.4-1(ii)		49	7.21	
2	7.1 - 2		11	7.1	O8, O9,	22	7.4-2(i)		50	7.22	J6,
3	7.1 - 5	J11, O16,	12	7.2		23	7.4-2(ii)		51	7.23(i)	
4	7.1 - 11	O11,	13	7.3	O8,	24	7.4 - 3		52	7.23(ii)	
5	7.1 - 12		14	7.4	J14,	25	7.4 - 5		53	7.24	O13,
6	7.2 - 1	O14,	15	7.5		26	7.4 - 6		54	7.35	
7	7.2 - 2	O11, O16,	16	7.6	O9, J14,	27	7.4 - 10		55	7.36	
8	7.2 - 6		17	7.15(i)		28	7.4 - 11		Outside the book		<u>O17</u> ,
9	7.3-2(i)	J11,	18	7.15(ii)		Underline implies Compulsory Questions					

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10. PROBABILITY DISTRIBUTIONS-3 marks (0)						3. COMPLEX NUMBERS - 6 marks (9)					
S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR
1	10.1-5(a)	J10,	20	10.5-2(iii)		1	3.1-1(ii)		25	3.4 - 9	M7, <u>O12</u> ,
2	10.1-5(b)		21	10.7	M10,M12,	2	3.1-1(iv)		26	3.5-1(ii)	
3	10.1-9		22	10.8		3	3.1-4(i)	J13,	27	3.5-2	J15,
4	10.2 - 2		23	10.19	O17,	4	3.1-4(ii)		28	3.5-3(i)	J16,
5	10.3 - 1		24	10.20		5	3.1-4(iii)	O10,J14,	29	3.5-3(iii)	
6	10.3 - 2		25	10.21	J6,M10, M17,	6	3.1 - 5		30	3.5-4(i)	<u>O8</u> ,O9,O14,
7	10.3 - 3	J16,	26	10.22	J6,M12, O17,	7	3.2 - 2	M6,O6,J15,	31	3.9(i)	
8	10.3 - 6	J10,	27	10.27(i)		8	3.2 - 4	<u>O10</u> ,	32	3.9(ii)	
9	10.4-1(i)	O11,M12,	28	10.27(ii)		9	3.2 - 5	O16,	33	3.9(iii)	
10	10.4-1(ii)	O11,M12,	29	10.27(iii)		10	3.2 - 7		34	3.10	<u>O13</u> ,
11	10.4-2(i)	J16,	30	10.27(iv)		11	3.2-8(ii)	M15,	35	3.13	
12	10.4-2(ii)		31	10.27(v)		12	3.2-8(iv)		36	3.14	
13	10.5-1(i)		32	10.27(vi)		13	3.3 - 1	O9,M12, J17	37	3.15	J7,M10,O14, M17,
14	10.5-1(ii)		33	10.27(vii)		14	3.3 - 2	J9,M11,	38	3.16	M7,J9,M15,
15	10.5-1(iii)		34	10.28(i)	M17,	15	3.3 - 3		39	3.17	M16, J16,
16	10.5-1(iv)		35	10.28(ii)		16	3.4 - 2		40	3.19	<u>O6</u> , <u>O11</u> ,O16, O17,
17	10.5-1(v)		36	10.28(iii)		17	3.4-3 (i, ii)	M13,O13,	41	3.20	M11,
18	10.5-2(i)		37	10.28(iv)		18	3.4-3 (iii, iv)	<u>J6</u> ,J11,	42	3.21	
19	10.5-2(ii)		Outside the book			19	3.4-3(v)		43	Triangle Inequality	O9,J10,M12, M14,
3. COMPLEX NUMBERS - 3 marks (1)						20	3.4-4(i)	O7, M8, M10, <u>O15</u> ,	44	Product of Two	O7,J8,J13, J17
1	3.1-1(i)		9	3.2-6(iii)		21	3.4-4(ii)	J8,	45	Quotient of Two	J14,
2	3.1-2(i)	O8,	10	3.2-6(iv)		22	3.4-4(iii)	J12,M14,	46	Comp. roots Theorem	O11, O17 ,
3	3.1-2(ii)		11	3.4 - 1	J12,	23	3.4-4(iv)		Outside the book		M6,J6,J7,M8, M9,J11,O12,O15, M17,
4	3.1 - 3	<u>M16</u> ,	12	3.5-1(i)	M13, <u>M16</u> ,	24	3.4-7	J10,	3. COMPLEX NUMBERS - 3 marks - Contd..		
5	3.2 - 1		13	3.5-3(ii)	O8,J12,M13,	17	3.6(ii)		19	3.12	
6	3.2 - 3		14	3.4(iv)		18	3.8		20	3.18	
7	3.2-6(i)		15	3.5		Underline implies Compulsory Questions					
8	3.2-6(ii)		16	3.6(i)							

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8. DIFFERENTIAL EQUATIONS - 6 marks (4)						8. DIFFERENTIAL EQUATIONS - 3 marks (0)					
S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	1	8.1-1(i)		7	8.2(i)	J8,
1	8.1-2(ix)		28	8.5 - 9		2	8.1-1(ii)		8	8.2(ii)	
2	8.1 - 3		29	8.5 - 12		3	8.1.1(iv)		9	8.2(iv)	
3	8.1 - 4		30	8.5 - 13		4	8.1-1(v)		10	8.20	
4	8.2 - 1		31	8.5 - 14	O12, J16,	5	8.1-1(vi)		11	8.21	
5	8.2 - 2		32	8.2(iii)		6	8.1-1(vii)		12	8.22	J8,
6	8.2 - 3		33	8.3	M15,	10. PROBABILITY DISTRIUTIONS-6 marks (18)					
7	8.2 - 4		34	8.4		S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR
8	8.2 - 5		35	8.5		1	10.1-1	M6,	21	10.5-4	J12,O14,
9	8.2 - 6		36	8.6		2	10.1-2		22	10.5-6	<u>O10</u> , <u>J14</u> , <u>O17</u> ,
10	8.2 - 8		37	8.8	M7,	3	10.1-3		23	10.5-7	<u>J6</u> , <u>M11</u> , <u>M15</u> ,
11	8.3 - 1		38	8.9		4	10.1-4	<u>M7</u> , <u>O15</u> ,	24	10.1	
12	8.3 - 2		39	8.11		5	10.1-6 (i,ii)	<u>O8</u> ,	25	10.4	
13	8.3 - 3	J7,J11,	40	8.12		6	10.1-8		26	10.5	
14	8.3 - 4	J6,	41	8.16		7	10.1-10		27	10.6	<u>M13</u> ,
15	8.3 - 6		42	8.17	M6,	8	10.2-1	<u>O12</u> , <u>M17</u> ,	28	10.8	J16,
16	8.4 - 1	M8,	43	8.20	J15,	9	10.2-3	J7,	29	10.11	M11,
17	8.4 - 2	O6, <u>O17</u> ,	44	8.21	J9,O15, <u>O16</u> ,	10	10.2-4	M16,	30	10.12	J13,
18	8.4 - 4	O8,O9,	45	8.25		11	10.2-5	<u>O14</u> ,	31	10.13	
19	8.4 - 6	M9,	46	8.26		12	10.2-6	J8,	32	10.14	J9,J10,J11, <u>J15</u> ,
20	8.4 - 8		47	8.27		13	10.2-7(i)	<u>O6</u> ,	33	10.15	M9,J12,O16, <u>J17</u>
21	8.5 - 1		48	8.28	<u>M12</u> , <u>M14</u> ,	14	10.2-7(ii)	O9,M14,	34	10.16	O8,O13,M15,
22	8.5 - 2		49	8.29		15	10.2-7(iii)	M6, <u>O7</u> ,M8,	35	10.17	J8,
23	8.5 - 3	M10,	50	8.30	J10,M11,O14,	16	10.3-4	<u>M8</u> ,J9,J14,	36	10.18 (i, ii)	<u>O9</u> , <u>O11</u> , <u>O12</u>
24	8.5 - 4	J14,	51	8.31		17	10.3-5	O7,O10,J15,	37	10.23	
25	8.5 - 5	J13,	52	8.32	O10,	18	10.4-3	M13, <u>J13</u> ,O15, M16,O16, <u>J17</u>	38	10.24	M14,
26	8.5 - 7		53	8.33	J12, <u>M17</u> ,	19	10.4-4	M10, <u>O13</u> ,	39	10.25	O6,M9,
27	8.5 - 8	O13,	54	8.36	<u>M13</u> , <u>M16</u> ,	20	10.5-3	<u>J7</u> , <u>J11</u> ,	Outside the book		M7,
Outside the book		O7,O11, <u>J17</u>	Outside the book			Underline implies Compulsory Questions					

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2. VECTOR ALGEBRA - 6 marks (5)			2. VECTOR ALGEBRA - 3 marks (1)		
S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR
1	2.2 - 1		35	2.11-3	O11,
2	2.2 - 2	J16,	36	2.11-6	J13,
3	2.2 - 3		37	2.12	
4	2.2 - 8		38	2.13	
5	2.3 - 9		39	2.14	
6	2.4 - 5		40	2.15	M9,
7	2.4 - 6		41	2.24	
8	2.4 - 8	M6,	42	2.25	
9	2.4 - 10	J15, O17,	43	2.26	O12, J17
10	2.5 - 4		44	2.27	
11	2.5 - 7		45	2.28	J8,
12	2.5 - 8		46	2.33	
13	2.5 - 10	J12,	47	2.36	
14	2.5 - 11	M15,	48	2.37	
15	2.6 - 4		49	2.38	M11,
16	2.6 - 6	J7,	50	2.39	
17	2.6 - 7		51	2.40	
18	2.7-1(i)		52	2.42	O8,
19	2.7-1(ii)		53	2.43	M8,J10,
20	2.7 - 2	J7,O14,	54	2.45	
21	2.7 - 4		55	2.46	J6,
22	2.7 - 5		56	2.48	
23	2.8 - 1		57	2.49	
24	2.8 - 4		58	2.53	
25	2.8 - 5		59	2.54	
26	2.8 - 6		60	2.55	
27	2.8-15(i)		61	2.56	
28	2.8-15(ii)		62	2.57	
29	2.9 - 1		63	2.58	M17,
30	2.9 - 2	O15,	64	2.59	M16,
31	2.9 - 3		65	2.62	
32	2.9 - 4	M7,O16,O17,	66	2.63	M10,M14,
33	2.11-1	J6,	67	2.64	J9,J11,O16,
34	2.11-2	O7,M13,	68	2.65	O10,J14,
Outside the book		O6,O8,O9,J13,	Outside the book		O13,
S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR
1	2.1 - 2	M10,	36	2.10-4	M15,
2	2.1 - 5		37	2.10-5	
3	2.1 - 6	J17,	38	2.11-4	M11,M15,M16,
4	2.1 - 7		39	2.11-5(iii)	O13,
5	2.1 - 8		40	2.11-5(iv)	O9,M12,O12,J17
6	2.1-12	O6,	41	2.6	M6,O15,
7	2.1-13		42	2.8	
8	2.2 - 6	O6,J9,M16,	43	2.9	O10,
9	2.2 - 7		44	2.10	
10	2.3 - 3		45	2.11	M7,M12,M13,
11	2.3 - 4		46	2.20	M8,J11,J16,
12	2.3 - 7		47	2.21	M12,
13	2.3 - 8		48	2.22	M6,O15,
14	2.3-10	M17,	49	2.23	
15	2.4 - 1		50	2.30	
16	2.4 - 2		51	2.31	M7,O7,
17	2.4 - 3		52	2.32	
18	2.4 - 4		53	2.34	O7, J8, O10, J12, O14,
19	2.4 - 9	J10,O12,	54	2.35	
20	2.5 - 1	O11,	55	2.41	J15, J16,
21	2.5 - 2	J9,M10,	56	2.47	M8,J15,
22	2.5 - 3		57	2.60	J11,
23	2.5 - 6	O13,	58	2.61	J12,M13,O14,
24	2.5 - 9	M9, M11, M14, J14,	59	2.19	J8,
25	2.6 - 2		Qns. Not listed in COME BOOK		
26	2.6 - 3			2.1-1,3	2.8-2,3
27	2.6 - 5	M17,		2.1-4,9	2.9-5,6
28	2.6 - 8	M9,M14,		2.1-10,11	2.11-5(i),(ii)
29	2.6 - 9	O9,		2.1-14(i)	2.1(i),(ii)
30	2.7 - 6	J14,		2.1-14(ii)	2.1(iii)
31	2.10-1(i)	M12,		2.1-14(iii)	2.2(i)
32	2.10-1(ii)			2.2 - 5	2.2(ii)
33	2.10-1(iii)			2.3-1,2	2.3, 2.4
34	2.10-2			2.3-5,6	2.5
35	2.10-3	J10,O11,		2.6 - 1	2.18

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5. DIFFERENTIAL CALCULUS I - 6 marks (7)

S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR
1	5.1 - 2	O8,O14,M17	36	5.7-4(ii)		71	5.19		86	5.39	
2	5.1 - 4		37	5.7-4(iii)	O12,	72	5.22(v)		87	5.40	J14,
3	5.1 - 7	M16,	38	5.7-4(iv)		73	5.23		88	5.41	
4	5.2-1(i)		39	5.7-5(i)	J7,	74	5.24	O9,J15,	89	5.42	
5	5.2-1(ii)		40	5.7-5(ii)	M6,M8,	75	5.25	O13,	90	5.43	
6	5.2-1(iii)		41	5.7-5(iii)		76	5.26		91	5.45	J12,
7	5.2-1(iv)		42	5.7-5(iv)		77	5.27		92	5.46	
8	5.2 - 2		43	5.7-5(v)		78	5.28(2)	M6,O8,M12,	93	5.48	J6,J10,J11,
9	5.2 - 3		44	5.7-5(vi)		79	5.28(3)		94	5.49	
10	5.2 - 4		45	5.8-1(i)		80	5.30		95	5.50	
11	5.2 - 6	J15,	46	5.8-1(ii)		81	5.31	J17	96	5.62	O17,
12	5.2 - 8	J8,J10,	47	5.8-1(iii)	M16,	82	5.33	M7,	97	5.65	O7,
13	5.2 - 9	M15,	48	5.8-1(iv)		83	5.36	M13,	98	5.66	O11,
14	5.3 - 2		49	5.9-1(iii)		84	5.37		Outside the book		M11,O16,
15	5.4-1(i)		50	5.9-1(iv)		85	5.38				
16	5.4-1(ii)		51	5.9-1(v)		5. DIFFERENTIAL CALCULUS - I - 3 marks(1)					
17	5.4-1(iii)	M10,	52	5.9-1(vi)		1	5.3-1(i)	J9,	18	5.11-2	
18	5.4-1(iv)		53	5.9-2(i)		2	5.3-1(ii)		19	5.2	
19	5.4-1(v)	J6,M7,O11,	54	5.9-2(ii)		3	5.3-1(iii)		20	5.21(i)	O6,
20	5.4 - 2	J16,	55	5.9-2(iii)		4	5.3-1(iv)	J12,O17,	21	5.21(ii)	
21	5.4 - 3	J11,	56	5.9-2(iv)	O14,	5	5.5 - 1		22	5.21(iii)	
22	5.4 - 4		57	5.9-2(v)	O15,J17	6	5.6 - 1		23	5.22(i)	M9,O15,
23	5.5 - 2		58	5.9-2(vi)		7	5.6 - 3		24	5.22(ii)	O16,
24	5.5 - 3	M8,	59	5.9-2(vii)		8	5.6 - 4		25	5.22(iii)	M13,J13,
25	5.5 - 4	O10,	60	5.9-3(i)		9	5.6 - 5	J12,	26	5.22(iv)	O12,M14,
26	5.6 - 2		61	5.9-3(ii)		10	5.6 - 7	O16,	27	5.22(vi)	
27	5.6 - 6		62	5.10 - 1	O9,	11	5.7 - 1	J9,	28	5.28(1)	O6,M10,M13,
28	5.6 - 8		63	5.10 - 2	O10,	12	5.7 - 2		29	5.32	M9,M15,O15,
29	5.6 - 9	M14,	64	5.10 - 6	O13,	13	5.7-3(i)		30	5.44	J16,
30	5.6 - 10	O6, O7, J9, J13,	65	5.11 - 1	M12,	14	5.7-3(ii)		31	5.47	M10,M11,O12, M14,M17,
31	5.6 - 12		66	5.11 - 3	M9,	15	5.7-3(iii)		32	5.59	M11,J13,M15,
32	5.6 - 13	J14,	67	5.10	J8,	16	5.9-1(i)	O17,	33	5.60	M17,
33	5.7-3(iv)		68	5.11	J7,	17	5.9-1(ii)		34	5.61	J16,
34	5.7-3(v)		69	5.12		Outside the book		Qns. Not listed in COME BOOK			
35	5.7-4(i)		70	5.16				5.1,5.3,5.4,5.5 & 5.29			

DETAILS OF HSC (6 & 3 MARKS) PUBLIC EXAMINATION QUESTIONS_MARCH 2006-OCT 2017

4. ANALYTICAL GEOMETRY - 6 marks (9) ... ONLY 22 out of 113 PROBLEMS ARE ASKED											
S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR	S NO	EX. & EG.	MONTH & YEAR
1	4.1-2(iii)		36	4.4-2(iii)		71	4.28(iii)		87	4.52	
2	4.1 - 3		37	4.4-2(iv)		72	4.29		88	4.53	
3	4.1 - 4		38	4.4-3(i)		73	4.30(iii)		89	4.54	
4	4.2-1(ii)		39	4.4-3(ii)		74	4.31(iii)		90	4.55	
5	4.2-1(iii)		40	4.4-3(iii)		75	4.34		91	4.58	J14,
6	4.2-1(iv)		41	4.4-3(iv)		76	4.36	J8,	92	4.59	
7	4.2-1(v)		42	4.4-4(i)		77	4.37		93	4.61	
8	4.2-1(vi)		43	4.4-4(ii)		78	4.38		94	4.62	
9	4.2-1(vii)		44	4.4-4(iii)	M11,	79	4.39	M15,	95	4.64	J10,
10	4.2-1(viii)		45	4.5-1(ii)		80	4.41		96	4.65	
11	4.2-1(ix)		46	4.5-2(i)	M8,O8,	81	4.42		97	4.66	
12	4.2 - 3		47	4.5-3(iii)	O11,O12,	82	4.43	J7,M16,	98	4.67	O10,M14,
13	4.2-4(ii)		48	4.6 - 1		83	4.44		99	4.68	M13,J15,
14	4.2-4(iv)		49	4.6-2(i)		84	4.45		100	4.69	J13,O14,
15	4.2-5(iii)		50	4.6-2(ii)		85	4.48		101	4.70	O13, J16,
16	4.2-5(iv)		51	4.6 - 4	J11, O16,	86	4.51		102	4.71	J12,
17	4.3-1(i)		52	4.6 - 5	J17	Outside the book		4. ANALYTICAL GEOMETRY - 3 marks (0)			
18	4.3-1(ii)		53	4.6-6(ii)							
19	4.3-1(iii)	M7,	54	4.6-6(iii)		1	4.1-1(i)		12	4.1(ii)	
20	4.3-1(iv)		55	4.6 - 7	J6, O7, M9, M12,	2	4.1-1(ii)		13	4.1(iii)	
21	4.3-1(v)	M17,	56	4.7(iii)		3	4.1-1(iii)		14	4.2(i)	
22	4.3-1(vi)		57	4.9	M6, O6, M10, O15,	4	4.1-1(iv)		15	4.2(ii)	
23	4.3-1(vii)		58	4.11	O17,	5	4.1-1(v)		16	4.3	
24	4.3-1(viii)		59	4.15		6	4.1-1(vi)		17	4.4	
25	4.3-1(ix)		60	4.16		7	4.1-1(vii)		18	4.5	
26	4.3-2(iii)		61	4.17		8	4.1-1(viii)		19	4.6	
27	4.3-3(ii)		62	4.18		9	4.1-1(ix)		20	4.40	
28	4.3-4		63	4.20		10	4.2-1(i)		21	4.60	
29	4.4-1(i)		64	4.21		11	4.1(i)		22	4.63	
30	4.4-1(ii)		65	4.22		Outside the book		Qns. Not listed in COME BOOK(EXERCISE) 4.1-2(i),(ii), 4.2-2,4(i),(ii),5(i),(ii), 4.3-2(i),(ii),3(i),5(i),(ii), 4.4-7(i),(ii),(iii), 4.5-1(i),3(i),(ii) & 4.6-6(i)			
31	4.4-1(iii)	J9,	66	4.23							
32	4.4-1(iv)		67	4.24	O9,	Qns. Not listed in COME BOOK(EXAMPLES) 4.7(i),(ii),4.19, 4.28(i),(ii),4.30(i),(ii), 4.31(i),(ii),4.46, 4.47,4.49,4.50					
33	4.4-1(v)		68	4.25							
34	4.4-2(i)		69	4.26							
35	4.4-2(ii)		70	4.27							