

XI STD – Maths –Table for selecting the minimum material

(5MARKS)

2017-2018

S.NO	TOPIC	CONTENTS	NO OF QUESTIONS
1	VECTORS	ALL	10
2	SEQUENCE AND SERIES	ALL	11
3	CONTUNITY AND DIFFERENTIABILITY	ALL	15
4	PROBABILITY	ALL	20
5	MATHEMATICAL INDUCTION	DIVISIBILITY AND PROVE THAT	14
6	ANALYTICAL GEOMETRY	ORTHOCENTRE(2TYPES) EQUATION OF CIRCLE PASSING THROUGH 3 POINTS, PASSING THROUGH 2 POINTS AND ONE POINT LIES ON THE CENTRE. ORTHOGONAL CIRCLE, CONCENTRIC CIRCLE, PAIR OF STRAIGHT LINE	
7	INEQUALITY	SOLVE INEQUALITY	8
8	TRIGONOMETRY	BY USING $\sin C \pm \sin D$, $\cos C \pm \cos D$ AND $\sin(A+B) \pm \sin(A-B)$, $\cos(A+B) \pm \cos(A-B)$ INVERSE TRIGONOMETRIC FUNCTION, PROVE THAT PROBLEMS	38
9	DIFFERENTIATION	LOGARTHEMICS, IMPLICIT, PARAMETRIC, SUCCESSIVE AND LIMITS BOOKWORK(2)	33
10	INTEGRATION	INTEGRATION BY PARTS $\int \frac{dx}{ax^2 + bx + c}$, $\int \frac{dx}{\sqrt{ax^2 + bx + c}}$ $\int \frac{(px + q)dx}{ax^2 + bx + c}$, $\int \frac{(px + q)dx}{\sqrt{ax^2 + bx + c}}$ Definite integral limit of a sum	34
11	Determinants	By using factor method and all lengthy sums	

Note: Definitely one book work includes. You can choose the minimum material according to your student's capability.

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(2MARKS AND 3 MARKS)

2017-2018

S.NO	TOPIC	CONTENTS	NO OF QUESTIONS
1	MATRICES AND DETERMINANTS	FIND THE MATRIX WHEN a_{ij} GIVEN. SOLVE / FIND $A^2 - 7A + 2I, (A+B)^2$ DETERMINANTS SMALL PROVE THAT PROBLEMS	
2	SEQUENCE AND SERIES	FIND THE nth OR 15 th term of HP, Sum of n arithmetic mean between 2 numbers, Insert 4 A.M between a and b, Insert 5 G.M between a and b and remaining problems from my materials	
3	Function and graph	fog, gof, f^{-1} , simple inequality. Find the domain and range. Verification for functions. Important graphs. Verify whether the function is graph or not.	
4	Limits	Limits exist or not, finding limits simple problems. LHL, RHL applying $\lim_{x \rightarrow a} \frac{x^n - a^n}{x - a}, \lim_{\theta \rightarrow 0} \frac{\sin \theta}{\theta} = 1$ and other important limits Find the +ve integer such that $\lim_{x \rightarrow 3} \frac{x^n - 3^n}{x - 3} = 108$	
5	CONTINUITY AND DIFFERENTIABILITY	Continuous or not Simple problems on continuity, differentiability, continuous but not differentiability	
6	Binominal theorem	Find the middle term, find the coefficient of x^5 and so on, find the term which is independent of x. Find the value by using expansion, sum of the binominal coefficients.	
7	Permutation and combination	Simple problems, when the same letter are repeated, circular permutation, prove that $0! = 1$ Find npr.	
8	Partial fractions	$\frac{dx + e}{ax^2 + bx + c}, \frac{dx + e}{(cx + d)^2}, \frac{ax + b}{(x + 1)(x^2 + 1)}$	
9	Analytical geometry	Locus Simple problems. Equation of st. line, perpendicular line from a point, angle between two	
10	Trigonometry	lines, parallel lines. Distance between parallel lines.	
11	Probability	Find the equation of line passing through the point	
12	Differentiation	of intersection of two lines, angle between two pair	
13	Integration	of st. line (2 types). three lines are concurrent, simple	
	ALL SUMS.	problems in pair of st line, condition to find c value.	

from my material

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