

TABLE OF CONTENTS

S. No.	TOPICS	PAGES
01.	Syllabus	I
02.	Study Tips	(II - III)
03.	Formulae Cluster	(01 - 10)
04.	Algebra Of Matrices & Determinants	(11 - 72)
05.	Inverse Trigonometric Functions	(73 - 94)
06.	Continuity & Differential Calculus	(95 - 142)
07.	Applications Of Derivatives	(143 - 176)
08.	Integral Calculus- Indefinite Integrals	(177 - 222)
09.	Integral Calculus- Definite Integrals & Its Properties	(223 - 260)
10.	Application Of Integrals	(261 - 269)
11.	Differential Equations	(270 - 290)
12.	Linear Programming	(291 - 309)
13.	Vector Algebra	(310 - 333)
14.	Three Dimensional Geometry	(334 - 370)
15.	Probability- Theory Of Chances	(371 - 402)
16.	Relations & Functions	(403 - 436)
17.	Answers Of all Chapters	(437 - 485)
18.	SAMPLE PAPERS (For Practice)	(486 - 526)
19.	Success Stories Of Math Achievers	(527 - 537)
20.	ENTRANCE Exams & CBSE Results @ Glance	(538 - 544)
21.	CBSE 2019 Question Paper & Solutions (Delhi)	(i - xviii)

SYLLABUS

*Weightage assigned to the different topics :

S. No.	Topics	Marks
01.	Relations and Functions	08
02.	Algebra	10
03.	Calculus	35
04.	Vectors & Three Dimensional Geometry	14
05.	Probability	08
06.	Linear Programming	05
Total Marks (Theory Exam)		80
Internal Assessment Marks (Periodic Tests & Activities)		20

* This weightage is as per the **Latest CBSE Curriculum for 2020 Examinations.**

☞ Following changes have been proposed for Class XII (2019-20) :

(a) Marks Distribution	Compulsory portion of Internal Assessment/ Project work/ Practical of at least 20 marks
(b) Marks in Theory	80 marks in Mathematics Theory Exams
(c) Components of Board Examination paper	<ul style="list-style-type: none"> • Objective Type Questions (with multiple choices) of Minimum 25% marks in the year end board exams. • Subjective Type Questions (no. of questions to be reduced to enable the students to have enough time to give analytical and creative responses) of Maximum 75% marks in the year end board exams.
(d) Internal Assessment/ Project work/ Practical	20 marks in Mathematics <ul style="list-style-type: none"> • Periodic Test (Best 2 out of 3 Tests conducted) - 10 marks • Mathematical Activities - 10 marks

☞ Total 36 Questions will be present in the Board Question Paper (Theory Exam) :

• VSA Type Questions (1 Mark - MCQ Type)	20 Questions	20 Marks
• SA Type Questions (2 Marks)	06 Questions	12 Marks
• LA I Type Questions (4 Marks)	06 Questions	24 Marks
• LA II Type Questions (6 Marks)	04 Questions	24 Marks

TABLE OF CONTENTS

S. No.	TOPICS	PAGES
01.	Preface	(545)
02.	Solutions - Algebra Of Matrices & Determinants	(547 - 652)
03.	Solutions - Inverse Trigonometric Functions	(653 - 688)
04.	Solutions - Continuity & Differential Calculus	(689 - 766)
05.	Solutions - Applications Of Derivatives	(767 - 844)
06.	Solutions - Integral Calculus- Indefinite Integrals	(845 - 934)
07.	Solutions - Definite Integrals & Its Properties	(935 - 990)
08.	Solutions - Application Of Integrals	(991 - 1016)
09.	Solutions - Differential Equations	(1017 - 1063)
10.	Solutions - Linear Programming	(1064 - 1076)
11.	Solutions - Vector Algebra	(1077 - 1104)
12.	Solutions - Three Dimensional Geometry	(1105 - 1148)
13.	Solutions - Probability-Theory Of Chances	(1149 - 1188)
14.	Solutions - Relations & Functions	(1189 - 1217)