

**THE WISDOM GLOBAL SCHOOL****SYLLABUS BIFURCATION****GRADE - XII****SUBJECT- MATHEMATICS****NAME OF THE BOOK - MATHEMATICS(NCERT/R D SHARMA)****YEAR-2023-2024****NAME OF THE TEACHER- Mr. SUSHIL CHANDRA BHATT**

S. No	BOOK NAME	MONTH	CHAPT ER NO.	CHAPTER NAME	SUB.TOPIC	NO.OF DAYS REQUIR ED
1	NCERT/R D SHARMA	APRIL	1	RELATIONS AND FUNCTIONS	Introduction	2
2		APRIL			Types of Relations - Reflexive, Symmetric, Transitive and Equivalence relation	3
3		APRIL			Functions , Tyes of functions	3
4		APRIL			One to one and onto functions	3
5		APRIL			practice - Extra problems	3
6		APRIL	2	INVERSE TRIGONOMETRIC FUNCTIONS	Introduction	2
7		APRIL			Definition - Inverse trigonometric functions	2

8		APRIL			Domain, Range and Graph of inverse trigonometric functions	2
9		MAY			Domain, Range and Graph of inverse trigonometric functions	3
10		MAY			Principle value branch	3
11		MAY			Practice-Extra problems	2
12	NCERT/R D SHARMA	MAY	3	MATRICES	Introduction, Matrix, Order of a Matrix	2
13		MAY			Types of Matrices	2
14		MAY			Operation on Matrices	2
15		MAY			Properties of addition/multiplication of Matrices	2
16		MAY			Transpose of Matrix, Properties of transpose of Matrices	2
17		MAY			Symmetric and Skew symmetric Matrices	1
18		MAY			Invertible Matrices	1
19		MAY			Practice-Extra problems	2
20	NCERT/R D SHARMA	MAY	4	Determinants	Introduction, Determinant of a Square Matrix	2
21		MAY			Area of a Triangle	2
22		MAY			Minors and Cofactors	2

23		MAY			Adjoint and Inverse of a Matrix	2
24		MAY			Applications of Determinants and Matrices	1
25		JUNE			Solution of system of linear equations using inverse of a Matrix	2
26		JUNE			practice - Extra problems	2
27	NCERT/R D SHARMA	JUNE	5	CONTINUITY AND DIFFERENTIABILITY	Introduction	2
28		JUNE			Continuity, Algebra of continuous functions	2
<b>SUMMER BREAK</b>						
29		JULY			Differentiability	2
30		JULY			Derivatives of Composite functions(by Chain rule)	2
31		JULY			Derivatives of Implicit/Inverse trigonometric functions,	2
32		JULY			Exponential and Logarithmic functions	2

33		JULY			Logarithmic Differentiation	2
34		JULY			Derivatives of functions in parametric forms,	2
35		JULY			Second order derivative	1
36		JULY			Practice- extra problems	2
37	NCERT/R D SHARMA	JULY	6	APPLICATIONS OF DERIVATIVES	Introduction	1
38		JULY			Rate of change of Quantities	2
39		JULY			Increasing and Decreasing functions	2
40		JULY			Maxima and Minima	3
41		AUGUST			Maximum and Minimum values of a function in a closed interval	2
42		AUGUST			Practice- extra problems	2

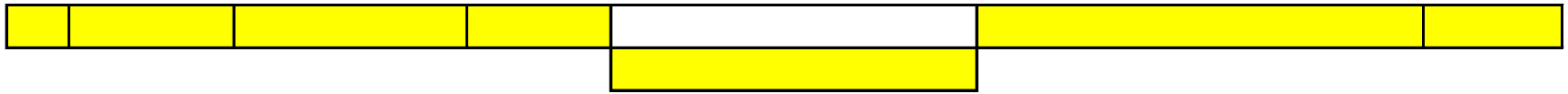
43	NCERT/R D SHARMA	AUGUST	7	INTEGRALS	Introduction, Geometric interpretation of Indefinite integrals	2
44		AUGUST			Method of Intgration-by substitution, by trigonometric identities	3
45		AUGUST			Integration by partial fractions, by parts	3
46		AUGUST			Definite integrals	2
47		AUGUST			Fundamental theorem of Calculus	2
48		AUGUST			Properties of Definite integrals	2
49		AUGUST			Practice- extra problems	3
50	NCERT/R D SHARMA	AUGUST	8	APPLICATIONS OF INTEGRALS	Introduction, Area under simple curves	2
51		AUGUST			Applications in finding the area under simple curves, especially lines , Parabolas	2
52		SEPTEMBER			Area of Circles/Ellipse	2

53		SEPTEMBER			Practice- extra problems	2
54	NCERT/R D SHARMA	SEPTEMBER	9	DIFFERENTIAL EQUATIONS	Introduction	2
<b>MID TERM EXAMINATION</b>						
55	NCERT/R D SHARMA	SEPTEMBER			Definition, order and degree	1
56		SEPTEMBER			General and Particular solutions of a Differential Equation	2
57		SEPTEMBER			Methods of solving First order, First degree Differential Equations- by variable separables	2
58		SEPTEMBER			Homogeneous differential equations and their solution	2
59		SEPTEMBER			Linear differential equations and their solution	2
60		SEPTEMBER			practice- extra problems	2
61	NCERT/R D SHARMA	SEPTEMBER	10	VECTORS	Introduction	1
62		SEPTEMBER			Directions Ratios and Direction Cosines of a vector	2

63		SEPTEMBER			Types of Vectors	2
64		OCTOBER			Positions vector of a point dividing a line segment in a given ratio	2
65		OCTOBER			Properties and applications of Scalar and cross product of vectors	2
66		OCTOBER			Practice- extra problems	2
67	NCERT/R D SHARMA	OCTOBER	11	THREE DIMENSIONAL GEOMETRY	Introduction	2
68		OCTOBER			Directions Cosines and Direction Ratios of a line	2
69		OCTOBER			Equation of a line in Vector and cartesian form	2
70		OCTOBER			Angle between two lines	2
71		OCTOBER			Shortest distance between two lines - Skew/parallel	2
72		OCTOBER			Practice- extra problems	2
73	NCERT/R D SHARMA	NOVEMBER	12	LINEAR PROGRAMMING	Introduction	1
74		NOVEMBER			Related terminology such as Constraints, Objective function, Optimization	1

		NOVEMBER			Graphical method of solution for problems in two variables	2
		NOVEMBER			Feasible and infeasible regions(bounded)	1
		NOVEMBER			Optimal feasible solutions (upto 3 non-trivial constraints)	2
		NOVEMBER			Practice- extra problems	2
	NCERT/R D SHARMA	NOVEMBER	13	PROBABILITY	Introduction	1
		NOVEMBER			Conditional Probability, Properties of conditional probability	2
		NOVEMBER			Multiplication theorem of Probability	1
		NOVEMBER			Independent events	1
75		NOVEMBER			Theorem of total probability, Bayes theorem	2
76		NOVEMBER			Random variables and Probability distributions	2
		NOVEMBER			Mean of a random variable	1
					Practice- extra problems	2
		DECEMBER		PREBOARD EXAMINATION		







ACTIVITY/ PROPS	SMART BOARD( PPT/VID EO)	CHART
NO	NO	NO
YES	NO	YES
NO	NO	NO
YES	NO	YES
NO	NO	NO
NO	NO	NO
YES	NO	NO

YES	NO	YES
NO	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	NO
YES	NO	NO
YES	NO	NO
NO	NO	NO

NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO

NO	NO	NO
YES	NO	YES

YES	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
YES	NO	NO
YES	NO	NO
NO	NO	NO

YES	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	YES
NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO

YES	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO

NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
NO	NO	NO



NO	NO	NO
NO	NO	YES
YES	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
NO	NO	NO
YES	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO
NO	NO	NO

