TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION, HYDERABAD

ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 1st YEAR MATHEMATICS (IB) SYLLABUS

S.NO	CHAPTER	TOPICS	No of periods	REMARKS
1	Locus	Complete chapter	8	
2	Transformation of Axes	Complete chapter	8	
3	Straight Line	Complete chapter	19	
4	Pair of straight lines	Introduction 4.1: Equation of a pair of lines passing through the origin, Angle between a pair of lines 4.2: Condition for perpendicular and coincident lines, bisectors of angles 4.4: Pair of lines – Second degree general equation 4.6: Homogenising a second degree equation with a first degree equation in x and y Exercise 4(b) : Deleted	12	
5	Three Dimensional Coordinates	Complete chapter	4	
6	Direction Cosines and Direction Ratios	Complete chapter	10	
7	Plane	Introduction Exercise 7(a) Section I and related examples	4	
8	Limits and Continuity	Introduction 8.1: Intervals and neighbourhoods 8.2: Limits 8.3: Standard limits	9	

9	Differentiation	Introduction 9.1: Derivative of a Function 9.2: Elementary properties 9.3: Trigonometric, Inverse trigonometric, Hyperbolic, Inverse Hyperbolic Functions – Derivatives Exercise 9© Section III Deleted Exercise 9(d) Deleted	16	
10	10. Applications of Derivatives	Introduction 10.1: Errors and Approximations 10.2: Geometrical interpretation of the derivative 10.3: Equation of tangent and normal, Sub tangent, Subnormal 10.5: Angle between two curves and condition for orthogonality of curves 10.9: Maxima and Minima	15	