

TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION, HYDERABAD

ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 2nd YEAR MATHEMATICS (IIB)SYLLABUS

S.NO	CHAPTERS	TOPICS
1	Circles	Introduction 1.1: Equation of a circle, standard form, centre and radius 1.2 Position of a point the plane of a circle – Definition of a tangent 1.3 Position of a straight line in the plane of a circle condition for a line to be tangent 1.4. Chord of contact and polar 1.5 Relative Positions of two circles
2	System of Circles	Introduction 2.1: Angle between two interesting circles 2.2: Radical axis of two circles
3	Parabola	Introduction 3.1: Conic Sections, Standard forms and related problems
4	Ellipse	Introduction 4.1: Equation of Ellipse in standard form, Parametric equation
5	Hyperbola	Introduction 5.1: Equation of hyperbola in standard form – Parametric equations Exercise 5(a) Up to Section I and related examples
6	Integration	Introduction 6.1: Integration as the inverse process of differentiation, standard forms and properties of integrals 6.2: Method of substitution (6.2.1 to 6.2.19) and related problems
7	Definite Integrals	Introduction Exercise 7(a) Exercise 7(b) section I and III (section II Deleted)
8	Differential equations	Introduction 8.1: Formation of differential equation – Degree and order of an ordinary differential equation 8.2: Solving of differential equations 8.2(a): Variable separable method