

TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION, HYDERABAD

ACADEMIC YEAR 2020-2021

70% CONTENT IN VIEW OF COVID-19 PANDEMIC

INTERMEDIATE 2nd YEAR MATHEMATICS (IIA) SYLLABUS

S.NO	CHAPTERS	TOPICS
1	Complex Numbers	Introduction 1.1: Complex number as an Ordered pair of real numbers Fundamental operations 1.2: Representation of Complex number in the form $a+ib$
2	De Moivre's Theorem	Upto exercise 2(b) section-I and related examples
3	Quadratic Expressions	Introduction 3.1 Quadratic expressions, equations in one variable 3.2 Sign of quadratic expressions, change of signs and maximum, minimum values
4	Theory of Equations	Complete Chapter
5	Permutations and Combinations	Introduction 5.1 Fundamental Principles of Counting - Linear and Circular permutations 5.2: Permutation of n dissimilar things r at a time 5.6: Combinations Exercise 5(e) Section I and II Related Problems Exercise 5(e) Section III Deleted
6	Binomial Theorem	Introduction Exercise 6(a) Section I and Section II up to 4th problem and related examples Exercise 6(b) Section I and related examples Exercise 6(c) Deleted
7	Partial Fractions	Upto 7(c) exercise
8	Measures of Dispersion	Introduction 8.1: Range 8.2.1: Mean Deviation for ungrouped data Exercise 8(a) Section I (problems 1 and 2)
9	Probability	Introduction 9.1 Random experiments and events 9.2 Classical definition of probability, axiomatic approach and addition theorem on probability 9.3.1 Independent and dependent events, conditional probability, multiplication theorem and problems and related examples
10	Random Variables and Probability Distribution	Introduction 10.1 Random Variables 10.2 Theoretical Discrete Distributions- Binomial and Poisson Distributions