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	CHAPTER	TOPICS	no of periods	REMARKS
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	6	
2	De Moivre's Theorem	Upto exercise 2(b) section-I and related examples	10	
3	Quadratic Expressions	3.1 Quadratic expressions, equations in one variable 3.2 Sign of quadratic expressions, change of signs and maximum, minimum values	8	
4	Theory of Equations	Complete Chapter	21	
5	Permutations and Combinations	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	10	
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	6	

7	Partial Fractions	Upto 7(c) exercise.	7	
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)	4	
9	Probability	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	18	
10	Random Variables and Probability Distribution	Complete Chapter	11	