

**TELANGANA STATE BOARD OF INTERMEDIATE EDUCATION, HYDERABAD**

**ACADEMIC YEAR 2020-2021**

**30% DELETED CONTENT IN VIEW OF COVID-19 PANDEMIC**

**INTERMEDIATE 2<sup>nd</sup> YEAR MATHEMATICS (IIA) SYLLABUS**

S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	1. Complex Numbers	1.3: Modulus and amplitudes, 1.4: Geometrical and polar representation	4	
2	2. Demovier's Theorem	Exercise to be section II onwards	4	
3	3. Quadratic expressions	3.3 Quadratic inequalities	2	
4	5. Permutations and Combinations	5.3: Permutations when repetitions are allowed, 5.4: Circular permutations, 5.5: Permutations with constraint repetitions Exercise 5(e) Section III	13	
5	6. Binomial Theorem	Exercise 6(a) Section II 5 <sup>th</sup> problem onwards and related examples Exercise 6(b) Section II and related examples Exercise 6(c)	20	
6	7. Partial Fractions	Exercise 7(d) deleted		
7	8. Measures of Dispersion	8.2.2 Mean Deviation for grouped data onwards Exercise 8(a) Section I Problem 3 onwards	6	
8	9. Probability	9.3.9 Baye's Theorem and problems on Baye's theorem	6	
	<b>TOTAL</b>		<b>55</b>	

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**INTERMEDIATE 2<sup>nd</sup> YEAR MATHEMATICS (IIB) SYLLABUS**

Deleted Syllabus of Mathematics IIB for the Academic year 2020-2021.				
S.NO	CHAPTER	TOPICS	no of periods	REMARKS
1	3. Parabola	3.2: Equation of tangent and normal at a point on the parabola	7	
2	4. Ellipse	4.2: Equation of tangent and normal at a point on the ellipse	7	
3	5. Hyperbola	5.2: Equation of tangent and normal at a point on the hyperbola Exercise 5(a) Section II onwards and related examples	8	
4	6. Integration	6.2(b) Integration by parts onwards 6.3: Integration-partial fraction method 6.4: Reduction formulae	12	
5	7. Definite Integrals	Exercise-7(b) Section II (8 to 15), 7.5: Reduction formula 7.6: Application of definite integrals to areas	6	
6	8. Differential equations	8.2(b) Homogeneous DE, 8.2(c) Non homogeneous DE 8.2(d) Linear differential equations onwards	5	
	TOTAL		45	