## BOARD OF INTERMEDIATE EDUCATION::A.P::NAMPALLY::HYDERABAD <u>SYLLABUS IN MATHEMATICS PAPER -II(A)</u> <u>TO BE EFFECTIVE FROM THE ACADEMIC YEAR 2008-2009</u>

SI. No.	Name of Topic and Sub Topics	No. of periods	Remarks
01.	ALGEBRA *		
	01 Overductic Francesisms		
	<b>01.</b> Quadratic Expressions:  Quadratic expressions, equations in one variable	04	
	Sign of quadratic expressions – Change in signs –	04	
	Maximum and minimum values	- 01	
	Quadratic inequations	02	
		10	
	02 Theory of Equations:		
	O2. Theory of Equations:  The Relation between in roots and coefficient in an equation	02	
	Solving the equation when two or more roots of it are connected by certain relations	04	
	Equations with real coefficients – occurrence of complex roots in conjugate pairs and consequences	02	
	Transformation of equations – Reciprocal equations	04	
		12	
	03. Matrices		
	Types of matrices	01	
	Scalar multiple of a matrix and multiplication of matrices	01 07	
	Transpose of a matrix	04	
	Determinants	04	
	Adjoint and Inverse of a matrix	03	
	Solution of simultaneous linear equations Consistency and inconsistency of Equations	04	
	Consistency and inconsistency of Equations – Rank of a matrix	01	
	Of a friddix	24	
	OA Barrantations and Combined		
	<b>04.</b> Permutations and Combinations  Definition of Linear and Circular Permutations	02	
		03	
	Permutations of <i>n</i> dissimilar things taken <i>r</i> at a time Theorems	03	
	Permutations with repetitions allowed	03	
	Circular permutations	03	
	Permutations – some things are alike and rest different	02	
	Combinations – definitions and illustrations	03	
	Certain theorems on combinations	02	
		18	

The state of the s			
	05. Binomial Theorem:		
	Binomial theorem for positive integral index	10	
	Binomial theorem for rational index	04	
	Approximations using binomial theorem	02	
		16	
	大型。据李维特的《6·4》。 19.30 / 10.70		
	06. Partial Fractions:		
		00	
	Partial fractions of $f(x)/g(x)$ when $g(x)$ contains	02	
	non-repeated linear fractors		
- 1 · · · ·	Partial fractions of $f(x)/g(x)$ when $g(x)$ contains	02	
	repeated and non repeated linear fractors		
	Partial fractions of $f(x)/g(x)$ when $g(x)$ contains	02	
. 4	irreducible fractors	06	
	07. Exponential and Logarithmic series:	03	
	Expansion of ex for real x		
	Expansion of log <sub>e</sub> (1+x) condition on x	03	
8.0.5		06	
1			
02.	PROBABILITY *		
		**************************************	
	사용하다 마른 사용하다 사용하다 하는 사용하다 하는데 보다 함께 보고 있는데 보고 있다면 하는데 보고 있다면 하는데 보고 있다면 하는데 보고 있다면 하는데		
	01. Probability:		
15	01. Probability: Random experiments and events	02	
	Random experiments and events	02 08	
	Random experiments and events Classical definition of Probability, Axiomatic		
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability	08	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional		
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's	08	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional	08	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's	08	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem	08	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem  O2. Random Variables and Probability	08	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem  O2. Random Variables and Probability Distributions	08 08 18	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem  O2. Random Variables and Probability Distributions Random variables	08 08 18	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem  O2. Random Variables and Probability Distributions Random variables Theoretical discrete distributions, Binomial and	08 08 18	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem  O2. Random Variables and Probability Distributions Random variables	08 08 18	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem  O2. Random Variables and Probability Distributions Random variables Theoretical discrete distributions, Binomial and	08 08 18	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem  O2. Random Variables and Probability Distributions Random variables Theoretical discrete distributions, Binomial and	08 08 18 06 06	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem  O2. Random Variables and Probability Distributions Random variables Theoretical discrete distributions, Binomial and	08 08 18 06 06 06	
	Random experiments and events Classical definition of Probability, Axiomatic approach and addition theorem of probability Independent and dependent events conditional probability – Multiplication theorem and Baye's Theorem  O2. Random Variables and Probability Distributions Random variables Theoretical discrete distributions, Binomial and	08 08 18 06 06	

(grad cg 28.2.07

28/2/07
- Cessas/m
- 28/2/07

## ABSTRACT OF ALLOTMENT OF UNIT WISE TEACHING PERIODS MATHEMATICS-IIA

Sl.No.	Name of Topic	No. of Periods	Remarks
01.	Quadratic Expressions	10	
02.	Theory of Equations	12	
03.	Matrices	24	
04.	Permutations and Combinations	18	
05.	Binominal Theorem	16	
06.	Partial Fractions	06	
07.	Exponential and Logarithmic series	06	
08.	Probability	18	
09.	Random Variable and Theoretical	12	
	Distributions		
	Total	122	