

**SYLLABUS
MATHEMATICS (041)
CLASS XII 2012-13**

Annexure - ' F '

One Paper	Three Hours	Marks: 100
Units		Marks
I. RELATIONS AND FUNCTIONS		10
II. ALGEBRA		13
III. CALCULUS		44
IV. VECTORS AND THREE - DIMENSIONAL GEOMETRY		17
V. LINEAR PROGRAMMING		06
VI. PROBABILITY		10
Total		100

The Question Paper will include question(s) based on values to the extent of 5 marks.

UNIT I: RELATIONS AND FUNCTIONS

1. **Relations and Functions :** (10) Periods.
Types of relations: reflexive, symmetric, transitive and equivalence relations. One to one and onto functions, composite functions, inverse of a function. Binary operations.
2. **Inverse Trigonometric Functions:** (12) Periods.
Definition, range, domain, principal value branches. Graphs of inverse trigonometric functions. Elementary properties of inverse trigonometric functions.

UNIT-II: ALGEBRA

1. **Matrices:** (18) Periods.
Concept, notation, order, equality, types of matrices, zero matrix, transpose of a matrix, symmetric and skew symmetric matrices. Addition, multiplication and scalar multiplication of matrices, simple properties of addition, multiplication and scalar multiplication. Non-commutativity of multiplication of matrices and existence of non-zero matrices whose product is the zero matrix (restrict to square matrices of order 2). Concept of elementary row and column operations. Invertible matrices and proof of the uniqueness of inverse, if it exists; (Here all matrices will have real entries).
2. **Determinants:** (20) Periods.
Determinant of a square matrix (up to 3 x 3 matrices), properties of determinants, minors, cofactors and applications of determinants in finding the area of a triangle. Adjoint and inverse of a square matrix. Consistency, inconsistency and number of solutions of system of linear equations by examples, solving system of linear equations in two or three variables (having unique solution) using inverse of a matrix.

Mathematics 041 Class Xii 2012 13 Examrace

Peipei Pang



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