NIMCET Syllabus

NIMCET Exam Syllabus of Mathematics

Set Theory	Probability and Statistics
• Concept of sets • Union • Intersection • Cardinality • Elementary counting • Permutations and combinations	• Basic Concepts Of Probability Theory • Averages • Dependent And Independent Events • Frequency Distributions • Measures Of Central Tendencies And Dispersions
Algebra	**Calculus**
• Fundamental Operations In Algebra • Expansions • Factorization • Simultaneous Linear • Quadratic Equations • Indices • Logarithms • Arithmetic • Geometric And Harmonic Progressions • Determinants • Matrices	• Limit Of Functions • Continuous Function • Differentiation Of Function • Tangents And Normal's • Simple Examples Of Maxima And Minima • Integration Of Functions By Parts, By Substitution And By Partial Fraction • Definite Integrals • Applications Of Definite Integrals To Areas
Trigonometry	**Vectors**
• Simple Identities • Trigonometric Equations • Properties Of Triangles • Solution Of Triangles	• Position Vector • Addition And Subtraction Of Vectors • Scalar And Vector Products • Vector Applications To Simple Geometrical Problems And Mechanics
Coordinate Geometry	
• Rectangular Cartesian Coordinates • Distance Formulae • Equation Of A Line • Intersection Of Lines • Pair Of Straight Lines • Equations Of A Circle • Parabola • Ellipse • Hyperbola	

NIMCET Syllabus of Computer Awareness

Computer Basics	Binary Arithmetic

• Organization Of A Computer • Central Processing Unit (CPU) • Structure Of Instructions In CPU • Input / Output Devices • Computer Memory • Back-Up Devices • Data Representation: • Representation Of Characters • Integers And Fractions • Binary And Hexadecimal Representations	• Addition • Subtraction • Multiplication • Division • Simple Arithmetic And Two's Complement Arithmetic • Floating Point Representation Of Numbers • Boolean Algebra • Truth Tables • Venn Diagrams

NIMCET Syllabus of Analytical Ability And Logical Reasoning

In this section, questions will be covered from logical situation and facts given in the passage

GENERAL ENGLISH:

Questions in this section will be designed to test the candidates' general understanding of the English language. There will be questions on the following topics:

- Comprehension
- Vocabulary
- Basic English Grammar