

Set Theory

- Concept of sets
- Union
- Intersection
- Cardinality
- Elementary counting
- Permutations and combinations

Algebra

- Fundamental Operations In Algebra
- Expansions
- Factorization
- Simultaneous Linear
- Quadratic Equations
- Indices
- [Logarithms](#)
- Arithmetic
- Geometric And Harmonic Progressions
- Determinants
- Matrices

Trigonometry

- Simple Identities
- Trigonometric Equations
- Properties Of Triangles
- Solution Of Triangles

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

Want to Know? [Ways Exercise Makes Your Brain Work Better](#)

NIMCET 2018 Syllabus of Computer Awareness (10 Questions)

Computer Basics

- 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

Binary Arithmetic

- Addition
- Subtraction
- Multiplication
- Division
- Simple Arithmetic And Two's Complement Arithmetic
- Floating Point Representation Of Numbers
- Boolean Algebra
- Truth Tables
- Venn Diagrams

Give Now: [Computer Knowledge Online Quiz](#)

Probability and Statistics

- Basic Concepts Of [Probability](#) Theory
- Averages
- Dependent And Independent Events
- Frequency Distributions
- Measures Of Central Tendencies And Dispersions

Calculus

- 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

Vectors

- Position Vector
- Addition And Subtraction Of Vectors
- Scalar And Vector Products
- Vector Applications To Simple Geometrical Problems And Mechanics

NIMCET Syllabus of Analytical Ability And Logical Reasoning (40 Questions)

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

GENERAL ENGLISH: (20 questions)

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](#)

MCA Entrance Exam Pattern

- NIT MCA Common Entrance Test will be conducted for 2 hours.
- Exam is of [Objective Type](#) that means multiple choice questions (MCQs) with four choices for each individual will be asked.
- Question paper will contain total 120 questions
- NIMCET MCA Common Entrance Test will be of English medium
- The question paper includes four subjects given in the following pattern:

Mathematics	50 questions
Analytical Ability and Logical Reasoning	40 questions
Computer Awareness	10 questions
General English	20 questions