

DA IICT 2012 Syllabus and Pattern Syllabus

Candidates appearing for DA IICT 2012 Examination are advised to take note of the syllabus for all subjects given below.

Mathematics

Candidates appearing for DA IICT 2012 Examination may consult the detailed list for DA IICT 2012 Mathematics Syllabus given below.

**Fundamental concepts of High Secondary (10 + 2) level
Permutations and Combinations**

Set Theory

Ordered Pairs, Relations, Functions, Induction Operation on Sets

Algebra and Matrices

Binomial theorem, permutations and combinations, surds, determinants, matrices and application to solution of simultaneous linear equations, Fundamental operations in Algebra, Expansion, factorization, simultaneous linear / quadratic equations, indices, logarithms, arithmetic, geometric and harmonic progressions.

Co-ordinate Geometry: Ellipse and hyperbola, simple geometric transformations like translation, rotation, scaling, Rectangular Cartesian co-ordinates, equations of a line, midpoint, intersections, equations of a circle, distance formulae, pair of straight lines, parabola.

Probability and Statistics

Dependent and independent events, frequency distributions Basic concepts of probability theory, Averages.

Calculus and Analytic Geometry

Calculus: Integration of function by parts, by substitution and by partial fraction, definite integral application to volumes and surfaces of frustums of a sphere, cone, cylinder, Taylor Series, Limit of functions, continuous functions, differentiation of functions(s), Tangents and normal, simple examples of maxima and minima.

Trigonometry

Solution of triangles, height and distance, inverse function, Simple identities, trigonometric equations, properties of triangles.

Computer and General Awareness

Candidates appearing for DA IICT 2012 Examination may consult the detailed list for DA IICT 2012 Computer and General Awareness Syllabus given below.

Computer

Topics: Programming (pseudo code and not specific programming language, Computer Arithmetic, Boolean Algebra and Truth Tables

General Awareness

This section is meant to assess knowledge regarding Computers, Software and IT industry.

Analytic and Logical Ability

Candidates appearing for DA IICT 2012 Examination may consult the detailed list for DA IICT 2012 Analytic and Logical Ability Syllabus given below.

This is meant to assess knowledge regarding Automation of Business Applications.

Pattern

The DA IICT Examination will consist of objective type questions. The Entrance Examination is conducted to assess candidates on the following areas:

General Awareness of Information Technology

Basic Programming

English

Logical Reasoning

Mathematical Aptitude

The Total duration of the examination is 2 hours. Candidates are advised to take note of the information given below.

Subject

Marks

Mathematics

50

Computer and General Awareness

20

Analytical and Logical Ability

30

English

30

Total Marks

130