



**CDS Syllabus Details:** Union Public Service Commission (UPSC) is going to conduct Combined Defence Services (CDS) Examination for recruitment of various vacancies under Indian Military Academy, Indian Naval Academy, Air Force Academy and Officers Training Academy. The CDS syllabus details is given below.

**PAPER – 1: ENGLISH:**

The question paper will be designed to test the candidates' understanding of English and workmanlike use of words.

**PAPER – 2: GENERAL KNOWLEDGE:**

General Knowledge including knowledge of current events and of such matters of everyday observation and experience in their scientific aspects as may be expected of an educated person who has not made a special study of any scientific subject. The Paper will also include questions on History of India and Geography of a nature which Candidate should be able to answer without special study.

**PAPER – 3: ELEMENTARY MATHEMATICS:**

**Arithmetic:** Number System-Natural numbers, Integers, Rational and Real numbers. Fundamental Operations addition, subtraction, multiplication, division, Square roots, Decimal fractions. Unitary method, time and distance, time and work, percentages, applications to simple and compound interest, profit and loss, ratio and proportion, variation.

**Elementary Number Theory**– Division algorithm. Prime and composite numbers. Tests of divisibility by 2, 3, 4, 5, 9 and 11. Multiples and factors. Factorization Theorem. H.C.F. and L.C.M. Euclidean algorithm, Logarithms to base 10, laws of logarithms, use of logarithmic tables.

**ALGEBRA**

Basic Operations, simple factors, Remainder Theorem, H.C.F., L.C.M. Theory of polynomials, Solutions of quadratic equations, relation between its roots and coefficients (Only real roots to be considered). Simultaneous linear equations in two unknowns-analytical and graphical solutions. Simultaneous linear in equations in two variables and their solutions. Practical problems leading to two simultaneous linear equations or in equations in two Variables or quadratic equations in one variable & their solutions. Set language and set notation, rational expressions and conditional identities, Laws of indices.

**TRIGONOMETRY**

Sine x, cosine x, Tangent x when  $0 \leq x \leq 90$  Values of sin x, cos x and tan x, for x = 0, 30, 45, 60 and 90  
Simple trigonometric identities.  
Use of trigonometric tables.  
Simple cases of heights and distances.

**GEOMETRY**

Lines and angles, Plane and plane figures, Theorems on (i) Properties of angles at a Point, (ii) Parallel lines, (iii) Sides and angles of a triangle, (iv) Congruency of triangles, (v) Similar triangles, (vi) Concurrence of medians and altitudes, (vii) Properties of angles, sides and diagonals of a parallelogram, rectangle and square (viii) Circles and its properties including tangents and normal, (ix) Loci.

**MENSURATION**

Areas of squares, rectangles, parallelograms, triangle and circle. Areas of figures which Can be split up into these figures (Field Book), Surface area and volume of cuboids, lateral surface and volume of right circular cones and cylinders, surface area and Volume of spheres.

**STATISTICS**

Collection and tabulation of statistical data, Graphical representation, frequency Polygons, histograms, bar charts, pie charts etc. Measures of central tendency.

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