



(CDS)
COMBINED DEFENCE SERVICE
SYLLABUS

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UPSC | MPSC | NDA | CDS | CAPF | AFCAT
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PIONEER ACADEMY FOR COMPETITIVE EXAMINATIONS

COMBINED DEFENCE SERVICE (CDS)

SYLLABUS

SECTIONS	TOPICS
ENGLISH	<ul style="list-style-type: none">• Spotting Errors Questions• Sentence Arrangement Questions• Synonyms & Antonyms• Selecting Words• Ordering of Sentence• Comprehension Questions• Ordering of words in a sentence• Fill in the blanks questions• Idioms and Phrases
GENERAL AWARENESS (GK)	<ul style="list-style-type: none">• Economics• Physics• Current Affairs• Politics• Chemistry• Sociology• History• Defence related Award• Geography• Environment• Sport• Biology• Cultural• Book• Statement

PIONEER ACADEMY FOR COMPETITIVE EXAMINATIONS

	• true/false	
ELEMENTARY MATHEMATICS	ALGEBRA	<ul style="list-style-type: none"> • 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
	ARITHMETIC	<ul style="list-style-type: none"> • Number System: Natural numbers, Integers, Rational and Real numbers. • Fundamental operations: addition, subtraction, multiplication, division,

PIONEER ACADEMY FOR COMPETITIVE EXAMINATIONS

		<p>Square roots, Decimal fractions</p> <ul style="list-style-type: none"> • 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. Factorisation Theorem • H.C.F. and L.C.M. • Euclidean algorithm • Logarithms to base 10 • laws of logarithms • use of logarithmic tables
	TRIGONOMETRY	<ul style="list-style-type: none"> • Sine \times, cosine \times, Tangent \times when $0^\circ < \times < 90^\circ$ • Values of $\sin \times$, $\cos \times$ and $\tan \times$, for $\times = 0^\circ, 30^\circ, 45^\circ, 60^\circ$ and 90° • Simple trigonometric identities • Use of trigonometric tables

PIONEER ACADEMY FOR COMPETITIVE EXAMINATIONS

		<ul style="list-style-type: none"> • Simple cases of heights and distances
	GEOMETRY	<ul style="list-style-type: none"> • Lines and angles • Plane and plane figures • Theorems on Properties of angles at a point • Parallel lines • Sides and angles of a triangle • Congruency of triangles • Similar triangles • Concurrence of medians and altitudes • Properties of angles • sides and diagonals of a Parallelogram • rectangle and square • Circles and its properties including tangents and normals • Loci
	MENSURATION	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Collection and tabulation of statistical data

PIONEER ACADEMY FOR COMPETITIVE EXAMINATIONS

		<ul style="list-style-type: none">• Graphical representation frequency polygons• histograms• bar charts• pie charts etc• Measures of central tendency
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