

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		<ul style="list-style-type: none"> • * Economics • * Physics • * Current Affairs • * Politics • * Chemistry • * Sociology • * History • * Defence related Award • * Geography • * Environment • * Sport • * Biology • * Cultural • * Book • * Statement • * 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 inequations in two variables and their solutions • * Practical problems leading to two simultaneous linear equations or inequations 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, 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. 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 • * 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 • * Graphical representation frequency polygons • * histograms • * bar charts • * pie charts etc • * Measures of central tendency