



An eye on talent

OLYMPIAD **A**PTITUDE **T**EST

Syllabus Grade 12

Mathematics

Relations and Functions, Inverse Trigonometric Functions,
Algebra: Matrices and Determinants,
Calculus: Continuity and Differentiability, Application of Derivatives,
Integrals, Application of Integrals, Differential Equations,
Vector & Three Dimensional Geometry, Probability,
Linear Programming.

Physics

Electric Charges and Fields, Electrostatic Potential and Capacitance,
Current Electricity, Magnetic Effects of Current and Magnetism,
Electromagnetic Induction and Alternating Currents,
Electromagnetic Waves, Optics, Dual Nature of Radiation and Matter,
Atoms and Nuclei, Electronic Devices

Chemistry

Solutions, Electrochemistry, Chemical Kinetics, Surface Chemistry,
General Principles and Processes of Isolation of Elements,
p-Block Elements, d- & f-Block Elements, Coordination Compounds,
Haloalkanes and Haloarenes, Alcohols, Phenols and Ethers,
Aldehydes, Ketones and Carboxylic Acids, Amines,
Biomolecules, Polymers, Chemistry in Everyday Life.

Biology

Reproduction, Genetics and Evolution,
Biology in Human Welfare,
Biotechnology, Ecology.

English

Vocabulary Usage, Confusable words
Antonyms, Synonyms, Homonyms, One word substitution
Vocabulary test, Commonly misspell words
Foreign terms commonly used in English
Parts of speech, Phrases and idioms, Phrasal Verbs
Active and passive voice, Direct and indirect speech
Transformations, Sentence Completion
Reconstruction of sentences, Reconstruction of paragraph
Rearrangement of jumbled parts, Error Detection
Spotting errors, Sentence improvement
Comprehension Ability, Cloze Test

Reasoning

Series , Analogy and Classification, Coding-Decoding,
Blood Relations, Direction Sense, Puzzle Test,
Venn Diagrams, Sequence, Mathematical Operations,
Alphabet Test and Logical, Inserting the Missing Character

General Knowledge

Plants and Animals, India and the World,
Science and Technology, Earth and its Environment,
Universe, Language and Literature, Entertainment,
Social Studies, Sports, Quantitative Aptitude and Reasoning,
Current Affairs, Life Skills.