

Mathematics Syllabus:

Arithmetic

- Rational numbers
- Squares and square roots of large numbers,
- Rational Exponents and radicals including negative powers
- Cubes and Cube roots
- Ratio and proportion
- Speed time and distance
- Time and work
- Percentage
- Profit loss and discount
- Simple Interest and Compound interest
- Average

Algebra

- Division of Polynomials
- Algebraic Identities,
- Factorization of Algebraic Expressions
- Linear equation in one variable including

Mensuration

- **Parallel lines and their properties,**
- **Perimeter and areas of triangle**
- **Quadrilaterals**
- **Circumference and Area of Circle**
- **Surface areas and volumes of the cube, Cones cylinder, cuboid, sphere and hemisphere**
- **Statistics**

English Syllabus

Reading

- Comprehension passages

Grammar

- Interchange of sentences
- Parts of speech
- Prepositions
- Active and passive voice
- Direct and indirect sentences
- Spotting errors
- Arrangement of sentences

Vocabulary

- Synonyms
- Antonyms
- Jumble words
- One word substitution
- Idioms and Phrases
- Prefix and suffix

Intelligence Syllabus:

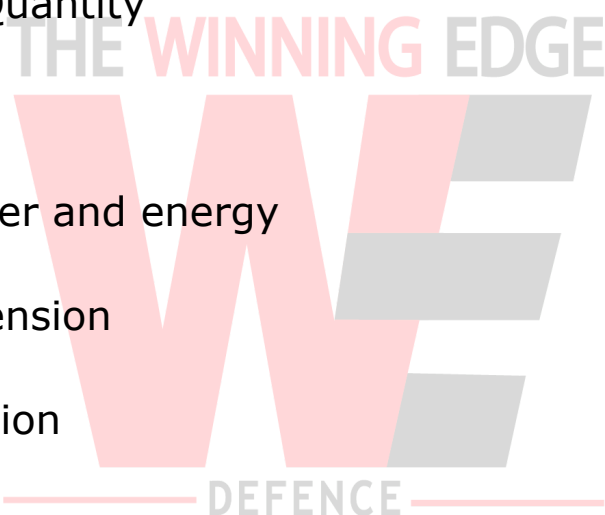
- Venn Diagrams
- Letter Series
- Number Series
- Analogy; Number Analogy
- Coding and Decoding
- Statement Analysis
- Place Arrangement
- Direction Sense
- Blood Relationships
- Arranging in Order
- Calendar, Clock & Time
- Rows and Ranks
- Common Property
- Symbol Substitution
- Missing Numbers
- Matrices
- Alphabet Problems
- Logical Diagram
- Syllogism

- Puzzle
- Non-Verbal Series
- Non-Verbal Analogy

General Science :

Physics

- Physical Quantity
- Motion
- Gravity
- Force
- Work power and energy
- Pressure
- Surface tension
- Heat
- Wave motion
- Light
- Sound
- Electricity
- Magnetism
- Radioactivity



CHEMISTRY

- Elements and compounds
- Periodic table
- Acid-base and salts
- Electrolytes
- Carbon and its compounds
- Petroleum and other natural gases

- Polymer and plastics

Biology

- Branches of biology
- Cell
- Balance diet
- Blood in Humans
- Excretory system of human
- Respiration in humans
- Glands
- Reproductive system in humans
- Sensory organs
- Disease in humans
- Discoveries
- Scientific instruments

HISTORY

- Harrapan civilization
- Vedic culture
- Jainism and Buddhism
- Dynasty of ancient India
- Arab conquest
- Delhi sultanate
- Mughal Empire

- Modern History

GEOGRAPHY

- The universe
- Landforms
- Static knowledge (mountains, straits, islands)
- Indian geography

POLITY

- Indian constitution
- Preamble
- Important articles
- Important amendments
- National symbols