

*SUPER 50 is a social initiative to provide Quality Education **Free of Cost** to the meritorious students of Ghaziabad region.*

*TOP 50 students will be selected and trained for Competitive Exams like IIT-JEE , NEET, NTSE & Olympiads*

**Exam Date: 13 October, 2024 (Sunday)**

( \*Exam duration for all classes will be 60 minutes )

## Syllabus for Super 50 Test

JEE / NEET COURSES

FOUNDATION COURSES

for students currently in **Class 10<sup>th</sup>**

### SCIENCE

Motion, Force, Laws of Motion, Gravitation, Work and Energy, Sound, Light-Reflection and Refraction, Human Eye and Colourful World, Matter in Our Surroundings, Is Matter Around Us Pure, Structure of Atom, Atoms and Molecules, Chemical Reactions and Equations, Acid Base and Salts, Metals and Non-Metals

**Human eye and colourful world:** Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life.

**Life processes:** 'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.

### MATHEMATICS

Real Numbers, Rational Numbers, Number System, Profit and Loss, Percentage, Polynomials, Linear Equation in Two Variables, Lines and Angles, Triangles, Quadrilaterals, Parallelograms, Triangles, Circles, Heron's Formula, Surface Areas, Volumes, Statistics, Trigonometry (Basic), Probability

**PATTERN** Science: 20 Questions | Mathematics: 10 Questions

for students currently in **Class 9<sup>th</sup>**

### MAT

Verbal and Non-Verbal Series, Logical Sequence of Words, Verbal and Non-Verbal Analogy, Coding and Decoding, Arithmetical Reasoning, Alphabet Test, Puzzle Test, Mirror Images, Analytical Reasoning, Blood Relation, Dice and Cube, Grouping of Identical Figures, Calendar, Logical Venn Diagrams, Clock, Verbal and Non-Verbal Classification, Paper Folding and Paper Cutting, Ranking and Time Sequence, Figure Matrix, Data Sufficiency

### MATHEMATICS

Rational Numbers, Linear Equation in One Variable, Quadrilaterals, Square and Square Roots, Cube and Cube Roots, Factorisation, Direct and Inverse Proportion, Comparing Quantities, Algebraic Expressions and Identities, Mensuration, Exponent and Powers, Number System, Polynomials, Linear Equation in Two Variables, Lines and Angles, Triangles, Profit and Loss, Percentage

### SCIENCE

Motion, Force, Laws of Motion, Gravitation, Fluids, Matter in our Surroundings, Is Matter Around Us Pure, Atoms and Molecules, Cells, Tissues, Diversity in Living Organism

**PATTERN** MAT: 10 Questions | Science: 10 Questions | Mathematics: 10 Questions

for students currently in **Class 8<sup>th</sup>**

### MAT

Verbal and Non-Verbal Series, Logical Sequence of Words, Verbal and Non-Verbal Analogy, Coding and Decoding, Arithmetical Reasoning, Alphabet Test, Puzzle Test, Mirror Images, Analytical Reasoning, Blood Relation, Dice and Cube, Grouping of Identical Figures, Calendar, Logical Venn Diagrams, Clock, Verbal and Non-Verbal Classification, Paper Folding and Paper Cutting, Ranking and Time Sequence, Figure Matrix, Data Sufficiency

### MATHEMATICS

Integers, Fractions and Decimals, Simple Equations, Lines and Angles, Triangles, Congruence of Triangles, Comparing Quantities, Rational Numbers, Perimeter and Area, Algebraic Expressions, Exponents and Powers, Linear Equations in One Variable, Quadrilaterals, Square and Square Roots, Cube and Cube Roots, Factorization, Profit and loss, Percentage

### SCIENCE

Crop Production and Management, Micro Organisms, Conservation of Plants and Animals, Cells, Force and Pressure, Friction, Sound, Synthetic Fibres and Plastics, Metals and Non-metals, Coal & Petroleum

**PATTERN** MAT: 10 Questions | Science: 10 Questions | Mathematics: 10 Questions

for students currently in **Class 7<sup>th</sup>**

### MAT

Verbal and Non Verbal Series, Logical Sequence of Words, Verbal and Non Verbal Analogy, Coding and Decoding, Arithmetical Reasoning, Alphabet Test, Puzzle Test, Mirror Images, Analytical Reasoning, Blood Relation, Dice and Cube, Group of Identical Figures, Calendar, Logical Venn Diagrams, Clock, Verbal and Non-Verbal Classification, Paper Folding and Paper Cutting, Ranking and Time Sequence, Figure Matrix, Data Sufficiency

### MATHEMATICS

Integers, Fractions and Decimals, Lines and Angles, The Triangles and its Properties, Algebraic Expressions, Exponents and Powers, Data Handling

### SCIENCE

Nutrition in Plants, Nutrition in Animals, Fibre to Fabric, Heat, Physical and Chemical Changes, Weather, Climate and Adaptations of Animals of Climate, Winds, Storms and Cyclones, Motion and Time, Light

**PATTERN** MAT: 10 Questions | Science: 10 Questions | Mathematics: 10 Questions