

# SYLLABUS FOR ENTERANCE EXAM

## CLASS – 12<sup>TH</sup> (SCIENCE STREAM)

TIME ALLOWED – 2 HOURS

### English:

- Do as directed (Fill ups)
- Question will be set from:
  - Determiners
  - Prepositions
  - Verb
  - Modals
  - Adjective
- Sentence Correction
- Differentiate between homophones
- Jumble words
- Short composition
- Unseen passage

### Science:

- **Biology**
  - Biological classification
  - Anatomy of flowering plants
  - Structural organization in animals
  - Cell- the unit of life
  - Cell Cycle & Cell division
  - Transport in plant
  - Photosynthesis in higher plants
  - Plant growth and development
  - Digestion and absorption
  - Body fluids and circulation
  - Excretory products and their elimination
  - Chemical coordination and Integration
- **Physics**
  - Physical world and measurement
  - Kinematics
  - Laws of Motion
  - Work energy and power
  - Motion of system of particles
  - Gravitation
  - Properties of bulk matter
  - Thermodynamics
  - Kinetic theory of gases
  - Oscillation and waves

### ➤ Chemistry

- Some basic concepts of chemistry
- Classification of elements and periodicity in properties
- Chemical bonding and molecular structure
- Status of Matter
- Thermodynamics
- Equilibrium
- p-block elements
- Organic chemistry – some basic principles and techniques
- Hydrocarbon

### Maths:

- Sets
- Relations and Functions
- Trigonometric Functions
- Sequence and Series
- Principle of mathematical Induction
- Complex Numbers and Quadratic Equations
- Linear Inequalities
- Permutation and Combination
- Binomial Theorem
- Straight Lines
- Conic Sections
- Introduction to Three-dimensional geometry
- Limits and Derivatives
- Mathematical Reasoning
- Statistics
- Probability
- Mental ability

*NOTE - The Syllabus will be based on NCERT Books of previous class (10+1).*