

ENTRANCE TEST SYLLABUS – 2026-27

CLASS XI (Science Stream)

1. English (Basic Proficiency & Comprehension)

- Reading Comprehension (short passages, factual/inferential questions)
- Grammar & Usage (tenses, subject–verb agreement, prepositions, determiners, voice, reported speech)
- Vocabulary (synonyms, antonyms, one-word substitutions)
- Writing Skills (short paragraph/notice writing/letter – optional)

2. Mathematics (Based on Class X NCERT)

- Algebra (polynomials, pair of linear equations, quadratic equations)
- Geometry & Trigonometry (similar triangles, trigonometric identities, heights & distances, circles)
- Mensuration & Surface Areas/Volumes
- Coordinate Geometry (distance formula, section formula, equation of a line)
- Statistics & Probability
- Arithmetic Progression

3. Science

a) Physics

- Light (reflection, refraction, mirror & lens numericals)
- Electricity (Ohm's law, series/parallel, power, heating effect)
- Magnetic Effects of Current (Fleming's rule, domestic circuits)
- Motion, Force & Work (Newton's Laws, equations of motion, work, energy & power)

b) Chemistry

- Chemical Reactions & Equations
- Acids, Bases & Salts
- Metals & Non-Metals (basic properties, reactivity series)
- Periodic Classification of Elements
- Carbon & Its Compounds (basic nomenclature, bonding, important reactions)

c) Biology

- Life Processes (nutrition, respiration, transport, excretion)
- Control & Coordination (plants & animals)
- How do Organisms Reproduce?
- Heredity & Evolution (basic concepts of Mendel's laws, variation)
- Our Environment (ecosystem, food chain, waste management)

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4. Aptitude & General Awareness (Optional Section)

- Basic logical reasoning (series, analogy, coding–decoding)
- Numerical ability (simple interest, percentages, ratios)
- General awareness of science & technology (latest discoveries, Nobel prizes, current trends in space, health, environment, etc.)

Exam Pattern (Recommended)

- Total Marks: 100
- Duration: 2 hours
- Sectional Weightage:
 - English: 15 marks
 - Mathematics: 25 marks
 - Science (Physics, Chemistry, Biology): 45 marks
 - Aptitude & General Awareness: 15 marks
- Type of Questions: Mostly objective (MCQs), with a few short-answer type.



Principal

