

# ELIXIIT Scholarship Admission Test (ESAT)



**SYLLABUS & PATTERN**

**Class XI Admission**

## ELIXIIT SCHOLARSHIP ADMISSION TEST



- 1. Number Theory: Arithmetic of Integers, Fundamental Theorem of Arithmetic, Division Algorithm, Prime Numbers, Concepts of gcd and lcm, Simple Applications of Congruences, Rational and Irrational Numbers,**
- 2. Geometry: Mensuration, Geometry involving Triangles, Similarities of Triangles, Circle Geometry, Surface Areas and Volume, Miscellaneous and Mixed Problems (concept based), Heights and Distances**
- 3. Trigonometry: Trigonometric Identities and Simple Applications of the t-ratios.**
- 4. Algebra: Inequalities, Polynomials, System of Linear Equations, Quadratic Equations and expressions, Probability Theory**
- 5. Co-ordinate geometry: Basics concepts of Coordinate Geometry, Straight Lines, Circles**
- 6. Simple Counting Technique Based Problems**

**EXAM  
PATTERN**

**Test Duration: 1 hour**

**Marking Scheme:**

**Number of Questions: 20**

**+4 for every correct answer**

**Total Marks: 80**

**-1 for every incorrect answer**

**Test Pattern: Objective**

**0 in all other cases**

**Please Note:** It is compulsory to log in at least 30 minutes prior to ESAT. A student will not be allowed to take the exam if the student joins late