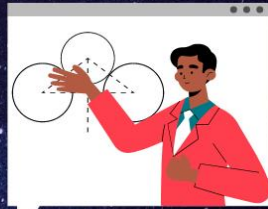


# ELIXIIT Scholarship Admission Test (ESAT)

**SYLLABUS & PATTERN**

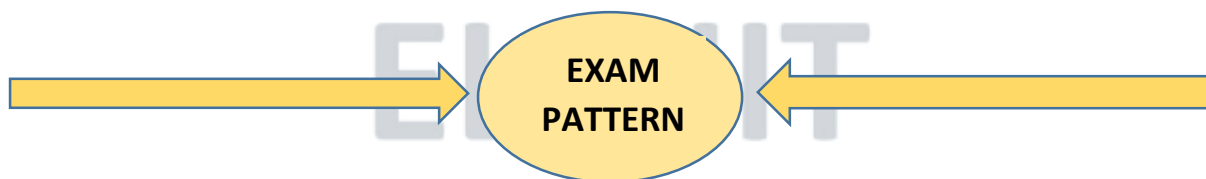
**Class XII Admission**



## 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, Applications of the t-ratios
- 4. Algebra:** Inequalities, Polynomials, System of Linear Equations, Quadratic Equations and expressions, Probability Theory, Sequence and Series, Complex Number
- 5. Co-ordinate geometry:** Basics concepts of Coordinate Geometry, Straight Lines, Circles
- 6. Simple Counting Technique Based Problems,** Permutation Combination, Binomial Theorem



**Test Duration: 1 hour**

**Number of Questions: 20**

**Total Marks: 80**

**Test Pattern: Objective**

**Marking Scheme:**

**+4 for every correct answer**

**-1 for every incorrect answer**

**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