

## Syllabus for Test

The aim is to test students on 7<sup>th</sup> and 8<sup>th</sup> grade mathematics topics, which are detailed below.

### 1. Sets

- i. Disjoint and Overlapping sets, Venn Diagram and operations on sets
- ii. Universal and subsets

### 2. Numbers

- i. Rational, even, odd, prime numbers and operations on them
- ii. Decimals
- iii. Exponents, square, perfect squares, cube
- iv. Square root of positive numbers
- v. Number Systems (bases other than 10)
- vi. LCM, HCF

### 3. Algebra

- i. Polynomials and operations on polynomials
- ii. Factorization
- iii. Linear Equations
- iv. Simultaneous Equations

### 4. Geometry

- i. Circumference, area and volume
- ii. Triangles

### 5. Others:

- i. Basic counting
- ii. Basic Trigonometry
- iii. Speed and work problems
- iv. Profit and loss