

## **MATHEMATICS...Grade:6...Allocated Marks:20...Time Allowed: 45 minutes**

**The ability of the students regarding general concepts of Mathematics, practiced in the respective classes at every school, is evaluated through the Entrance Test paper of Mathematics. The paper comprises of five sums carrying 4 marks each. The very first question of the paper is in objective form, however, the rest of the 4 questions are picked up calculation based sums.**

- **Fill in the Blanks (1.0× 4)**
- **Sums (4.0× 4)**

### **SYLLABUS of MATHEMATICS for ADMISSION to Grade: 6**

**Whole Numbers (0 - 1 000 000 000):** Place value chart, place value, expanded form, number name, numbers in figures, comparison and ordering of numbers, number patterns, Rounding off .

**Numbers operations:** (Addition, Subtraction, Multiplication & Division), Word problems of Addition, Subtraction, Multiplication & Division

**Factors and Multiples:** Prime and composite numbers, Factors and multiples, Prime factorization, HCF and LCM, Real life application of HCF & LCM

**Fractions & Decimals:** Introduction to Fractions & decimals, Equivalent fraction, Lowest form of fraction, Conversion of decimal to common fraction (into lowest form) and vice versa, comparing and ordering fractions and decimals, operations on fractions & decimals and their related word problems.

**Percentage:** Concept of percentage, expressing fraction & decimal into percentage & vice versa, Percentage of quantity, finding part(quantity) when its percentage and whole are given and their related word problems.

**Unitary method:** Finding the value of 1 object of same kind when value of many of these objects is given and vice versa, Finding the value of many objects when value of some of these is given. Direct relation by using **Unitary method.**

**Average:** Finding average, word problems