Syllabus for Special TET, 2026
Mathematics
Paper II (For Classes VI-VIII)
Total Marks: 30

Number System- **6**

Natural numbers, Test of divisibility, Whole numbers, Negative numbers and Integers, Rational numbers, Irrational numbers, Real numbers, Fractions, Decimal fractions, LCM and HCF of rational numbers, Comparisons and operations of rational numbers, Laws of Arithmetic Operations, Square, Square roots, Cube, Cube roots, Powers and exponents, Laws of Exponents.

Socially applicable Mathematics- **4**

Ratio and Proportion, Simple and Compound Interest, Use of unitary method, Percentage and its applications, Profit, Loss and Discount.

Algebra- **4**

Preliminary concept of Algebra, Algebraic expressions and their types, Operations on algebraic expressions, Factorization of algebraic expressions, Polynomials, Linear equation in one variable, Quadratic equation in one variable, Zeroes of polynomial, Relation between zeroes and co-efficient, Algebraic method of solutions of pair of linear equations and its consistency

Geometry and Mensuration- **8**

Lines and angles, Pairs of angles, Properties of Triangles, Quadrilaterals and polygons (interior and exterior angles), Congruency and similarity of triangles, Area of triangle, Pythagoras Theorem, Perimeter and Area of different geometrical figures, Idea of Pie, Basic circle concepts like radius, diameter, chord and arc along with properties related to equal chords, the angle subtended by an arc and cyclic quadrilaterals, Tangent to a circle and property, Surface area and volume of a Cube, Cuboid, Cone, Cylinder and Sphere, Surface area and volume of combination of solids.

Probability- **1**

Meaning of probability in everyday life, Simple experiments and events, Complimentary events, Simple problems.

Introduction to Graphs and Data Handling- **3**

Axes, Cartesian plane, Co-ordinate of points, Plotting of points in different situations, Distance between two points, Reading and drawing of linear graphs, Collection and organization of data, Classification of data, Class interval, frequency of a class, Frequency distribution table, Introduction of graphs, Bar and Pie graphs, Reading bar graphs, Interpretation of data from graphs, Measures of central tendency.

Idea of Co-ordinate Geometry- **2**

Distance of a point from co-ordinate axes, Distance between two points, Section formula, Mid-point, Area of triangle using co-ordinate geometry.

Integration of ICT in teaching Mathematics- **2**

Importance of ICT in teaching Mathematics, Use of ICT in teaching Mathematics.

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