

SYLLABUS FOR TET 2011

Mathematics : Paper I For L.P. level (Classes I-V)

Total Marks : 30

Numbers : Natural numbers, Whole numbers, Even and Odd numbers, Prime and Composite numbers, Place value system (Indian and International), Four fundamental operations on numbers, (Addition, Subtraction, Multiplication and Division), Factors and Multiples, Prime Factors, Lowest Common Multiples (LCM), Highest Common Factors (HCF), Skip counting, Group counting, Comparison, Ascending and Descending Order, Application of numbers in real life, Unitary method and Average.

Fractions : Concept of Fractions, Types of Fractions, Addition, Subtraction, Multiplication and Division of Fractions, Decimal Fractions, Percentage and their use.

Money : Concept of Money, Conversion of Rupees to Paise and vice versa, Four operations in solving problems involving money, Simple problems involving Profit and Loss.

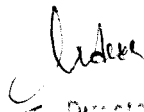
Geometry : Concept and understanding of different shapes, Line, Line Segment, Ray, Angles, Types of Angles, Types of Triangles, Types of Quadrilaterals, Circles.

Mensuration : Length, Perimeter and Area of different Geometrical figures, Weight, Time, Capacity and Volume.

Data Handling : Introduction to Data, Representation of Data, Picto Graph, Bar Diagram and Draw Inferences.

Patterns : Simple patterns in shapes, numbers, identifies patterns in Square Numbers, Triangular Numbers, Relate Sequence of different numbers.


(Member-Secretary)
Empowered Committee, TET, Assam


Director
SCERT, Assam, Guwahati-78

SYLLABUS FOR TET 2011
Mathematics : Paper II
For U.P. level (Classes VI-VIII)

Total Marks : 30

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

Socially applicable Mathematics : Ratio and Proportion, Simple and Compound Interest, Use of Unitary method in time and distance, Discount, Profit and Loss.

Algebra : Preliminary concept of Algebra, Algebraic expressions and their types, Operations on algebraic expressions, Factorization on algebraic expressions, Linear equations in one variable, Linear equations in two variables, Linear inequalities, Algebraic solutions of linear inequalities of one variable.

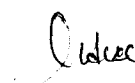
Geometry : Line, Line segment, Ray, Open and closed figures, Lines and angles, Pairs of angles, Properties of parallel lines, Properties of Triangles, Quadrilaterals and Polygons, Congruency of Triangles, Construction using Scale, Protector and Compass.

Mensuration : Perimeter and Area of different geometrical figures, Idea of pie, Surface area and volume of Cube, Cuboid, Cone and Cylinder.

Data Handling : Collection and organization of data, classification of data, class interval, class boundary, frequency of a class, frequency distribution table, introduction of graphs, Bar and Pie graphs, reading Bar graphs, interpretation of data from graphs.

Introduction of Graphs : Axes, Cartesian plane, co-ordinate of points, plotting of points in different situations, distance between two points, reading and drawing of linear graphs.


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