

## SEC-2

### QUANTITATIVE AND LOGICAL THINKING

#### Unit - I : QUANTITATIVE APTITUDE & DATA INTERPRETATION

1. Whole numbers, Integers, Rational and irrational numbers, Fractions, Square roots and Cube roots, Surds and indices, Problems on Numbers, Divisibility. Steps of Long Division Method for Finding Square Roots.
2. Basic concepts, Different formulae of Percentage, Profit and Loss, Discount, Simple interest, Ratio and Proportion, Mixture.
3. Time and Work, Pipes and Cisterns, Basic concepts of Time, Distance and Speed; relationship among them.
4. Concept of Angles, Different Polygons like triangles, rectangle, square, right angled triangle, Pythagorean Theorem, Perimeter and Area of Triangles, Rectangles, Circles.
5. Raw and Grouped Data, Bar graphs, Pie charts, Mean, Median and Mode, Events and Sample Space, Probability.

#### Unit - II : LOGICAL REASONING

1. Analogy basing on kinds of relationships, Simple Analogy; Pattern and Series of Numbes, Letters, Figures. Coding-Decoding of Numbers, Letters, Symbols (Figures), Blood relations.
2. Logical Statements - Two premise argument, More than two premise argument using connectives.
3. Venn Diagrams, Mirror Images, Problems on Cubes and Dices.