PEA305:ANALYTICAL SKILLS-I

Course Outcomes: Through this course students should be able to

CO1 :: reproduce the concepts learned to solve various questions of quantitative and reasoning aptitude

CO2 :: observe the data given and interpret it from the given problem

CO3 :: apply the Concepts to solve Company Specific Aptitude tests

CO4 :: analyze the problems and use logic to interpret and handle different situations

CO5 :: select the appropriate approach to initiate the given problem

CO6 :: solve quantitative and reasoning aptitude in competitive examinations

Unit I

Number system : HCF & LCM, divisibility rules, classification of numbers, factors, factorials, unit digit calculation, remainder properties

Average : basic average calculations, average increase and decrease, weighted average

A.P and G.P : basic formulas on arithmetic and geometric progressions, calculation of general terms, sum of n terms calculation

Unit II

Percentage : basic percentage calculations, percentage to fraction, percentage comparison, percentage increase and decrease, population change in percentage

Profit loss discount : basic concepts of cost price selling price and marked price, calculations of profit and loss percentage, types of discount and discount percentages, comparison of profit or loss with discount percentage

Simple and compound interest : basic concepts of interest calculations, comparison of simple and compound interest, EMI calculations

Unit III

Logical reasoning : number series, alpha series, alphabet test, coding and decoding, language coding

Unit IV

Ratio and proportions : basic concepts of ratio and proportions and ages, problems based on ratio and proportions and ages, problems based on partnerships and profit sharing

Alligation and mixtures : conceptual knowledge of alligation and mixtures, problems based on alligation and mixtures

Unit V

Permutation : basic principle of counting, numerical permutation(formation of numbers and sum of numbers), alpha permutation(rearrangement of words and rank of a word), linear and circular permutation, logical permutation

Combination : basic formulas of combination, formation of committee, combination of identical objects

Probability : concept of probability, classification of events, conditional probability, problems based on coins dices and cards

Unit VI

Analytical reasoning : Blood Relation, Direction Sense

Text Books:
1. QUANTITATIVE APTITUDE FOR COMPETITIVE EXAMINATIONS by DR.R.S. AGGARWAL, S Chand Publishing

2. A MODERN APPROACH TO VERBAL AND NON-VERBAL REASONING by DR. R.S. AGGARWAL, S Chand Publishing

References:
1. MAGICAL BOOK ON QUICKER MATHS by M.TYRA, BANKING SERVICE CHRONICLE

2. MAGICAL BOOK SERIES ANALYTICAL REASONING by M.K. PANDEY, BANKING SERVICE CHRONICLE