PEA516:ANALYTICAL SKILLS-II

L:2 T:2 P:0   Credits:4

Course Outcomes: Through this course students should be able to

CO1 :: employ the concepts learnt to analyze and solve the problems related to work based on time and efficiency.

CO2 :: select an appropriate approach to solve problems related to time, speed and distance.

CO3 :: demonstrate the various logical reasoning techniques to solve problems related to series completion, coding decoding in minimum possible time.

CO4 :: articulate an appropriate approach to solve the problems related to clock and calendar.

CO5 :: use the analytical skills to calculate the simple and compound interest.

CO6 :: analyze the logical reasoning aptitude problems related to puzzle test and non-verbal reasoning. to solve accordingly

Unit I

Time and Work : chain rule, computation of work done together, men, women, children based problems, wages based work problems, alternate day work

Pipes and Cisterns : inlet-outlet, part of tank filled, time based problems, alternate work

Unit II

Time and Distance : concept of time speed and distance, conversion of Units, average speed concept, different types of problems

Problem on trains : relative speed concept, faster and slower train

Boats and streams and races : downstream and upstream, linear and circular track

Unit III

Sequence and series completion : series completion, analogy, classification, arithmetic and geometric progression

Alphabet test and logical sequence of words : alphabetical order of words, letter-word problems, rule detection, alphabetical quibble, word formation by unscrambling letters, word formation using Letters of a given word, alpha-numeric sequence puzzle, logical sequence of words

Coding-Decoding : letter coding, number/symbol coding, substitution, matrix coding, mixed letter coding, mixed number coding

Unit IV

Simple interest : basics of principal, rate and time, rate computation, time computation, amount computation

Compound interest : concept of simple and compound interest, questions based on relation between compound and simple interest

Unit V

Calendar : calculating odd days, basic concept of calendar, finding the exact day

Clocks : concept of clock, angle computation, facts

Insert the missing character : set of figures, set of arrangements, set of matrix

Data sufficiency : check sufficiency of data to answer the given questions

Unit VI

Coding inqualities : basic operations, rules of inequalities, coded relations

Puzzle test : seating/placing arrangements, comparison type questions, sequential order of things, family based problems

Non-Verbal Reasoning : series of figures, analogy of figures, classification of figures

Text Books:

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

2. A MODERN APPROACH TO VERBAL & 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. ANALYTICAL REASONING by M.K. PANDEY, BANKING SERVICE CHRONICLE