

PEA306:ANALYTICAL SKILLS-II

L:2 T:1 P:0 Credits:3

Course Outcomes: Through this course students should be able to

CO1 :: use the concepts learned in ratio and LCM to solve the problems related to time & work , pipes & cisterns

CO2 :: determine the techniques of time speed & distance to solve the problems on trains and boats & stream

CO3 :: apply the concepts learnt to solve the questions related to venn diagrams

CO4 :: apply the concepts learnt to solve the problems based on clocks, calendar and mensuration

CO5 :: apply the analytical reasoning concepts learnt to solve linear and circular seating arrangement based problems

CO6 :: analyze the data to interpret and solve the given problems

Unit I

Time and Work : problems based on time and work, formulae, computation of work done together, efficiency based problems, men, women, and children based problems, wages based work problems

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

Unit II

Time, speed and distance : concept of time, speed and distance, conversion of units and proportionality, average speed concept

Problem on trains : relative speed concept & application

Boats and Streams : downstream and upstream

Unit III

Syllogism : logical venn diagrams, ability to relate a certain given group diagrammatically, Possibility based questions

Arithmetical reasoning : venn diagrams based problems

Number ranking test : number test and ranking test problems

Unit IV

Mensuration : problems on surface area and volume of cube, cuboid, problems on surface area and volume of sphere and hemisphere, problems on surface area and volume of cone and cylinder

Calendar : basic concept of calendar, date and days, finding the exact day

Clocks : concept of clock, facts and formulae, practice problems

Unit V

Height and distance : problem based on height and distance

Analytical Reasoning : Linear seating arrangement, circular seating arrangement, puzzle test

Cubes and Dices : basic 3-D structure of a cube., evaluation of Cube with 'n' sides painted, numbers on a die, classification of dice, constructed and deconstructed dice

Unit VI

Data interpretation : basics of data interpretation and its types, tabulation, bar graph, pie chart, and line graph

Data sufficiency : check sufficiency of data

Text Books:

1. ANALYTICAL SKILLS - II by S.CHAND EXPERTS, S Chand Publishing

References:

1. ANALYTICAL REASONING by MK PANDAY, BANKING SERVICE CHRONICLE
2. MAGICAL BOOK ON QUICKER MATHS by M.TYRA, BANKING SERVICE CHRONICLE

