

## PEA306:ANALYTICAL SKILLS-II

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

**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

**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 cistern** : 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  
**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  
**Height and distance** : problem based on height and distance

### Unit V

**Calendar** : basic concept of calendar, date and days, finding the exact day  
**Clocks** : concept of clock, facts and formulae, practice problems  
**Analytical Reasoning** : Linear seating arrangement, circular seating arrangement, puzzle test

### 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. A MODERN APPROACH TO VERBAL & NON-VERBAL REASONING by DR. R. S. AGGARWAL, S Chand Publishing
2. QUANTITATIVE APTITUDE by DR. R. S. AGGARWAL, 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