

Course title: Aptitude and Reasoning

B.Sc.C.S. TY V sem
B.C.A. TY V Sem
Total Teaching Hours: 60

Course code: U-APR-601
Course code: U-APR-614
Total Marks: 50
Credit: 02

Learning Objectives

This course is designed to suit the need of the outgoing students and to acquaint them with frequently asked patterns in quantitative aptitude and logical reasoning during various examinations and campus interviews.

Course Outcome

On successful completion of the course the students will be able to:

- Understand the basic concepts of quantitative ability
 - Understand the basic concepts of logical reasoning Skills
 - Acquire satisfactory competency in use of reasoning
 - Solve campus placements aptitude papers covering Quantitative Ability, Logical Reasoning Ability
 - Compete in various competitive exams like CAT, CMAT, GATE, GRE, GATE, UPSC, GPSC etc.
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Syllabus

UNIT - I

1. Quantitative Ability (Basic Mathematics)

12 Hrs

- 1.1. Number Systems
- 1.2. LCM and HCF
- 1.3. Decimal Fractions
- 1.4. Simplification
- 1.5. Square Roots and Cube Roots
- 1.6. Average
- 1.7. Problems on Ages
- 1.8. Surds & Indices
- 1.9. Percentages
- 1.10 Problems on Numbers

UNIT – II

2. Quantitative Ability (Applied & Engineering Mathematics)

13 Hrs

- 2.1. Logarithm
- 2.2. Permutation and Combinations
- 2.3 Probability
- 2.4 Profit and Loss
- 2.5 Simple and Compound Interest
- 2.6. Time, Speed and Distance

- 2.7. Time & Work
- 2.8. Ratio and Proportion
- 2.9. Area
- 2.10 Mixtures and Allegation

UNIT – III

15 Hrs

2. Data Interpretation

- 3.1. Data Interpretation
- 3.2. Tables
- 3.3. Column Graphs
- 3.4. Bar Graphs
- 3.5. Line Charts
- 3.6. Pie Chart
- 3.7. Venn Diagrams

UNIT – IV

4. Logical Reasoning (Deductive Reasoning)

20 Hrs

- 4.1. Analogy
- 4.2. Blood Relation
- 4.3 Directional Sense
- 4.4. Number and Letter Series
- 4.5. Coding – Decoding
- 4.6. Calendars
- 4.7. Clocks
- 4.8. Venn Diagrams
- 4.9. Seating Arrangement
- 4.10. Syllogism
- 4.11. Mathematical Operations

Reference books:

1. A Modern Approach To Verbal & Non Verbal Reasoning By R S Agarwal
2. Analytical and Logical reasoning By Sijwali B S
3. Quantitative aptitude for Competitive examination By R S Agarwal
4. Analytical and Logical reasoning for CAT and other management entrance test By Sijwali B S
5. Quantitative Aptitude by Competitive Examinations by Abhijit Guha 4 th edition
6. <https://prepinsta.com/>
7. <https://www.indiabix.com/>
8. <https://www.javatpoint.com/>