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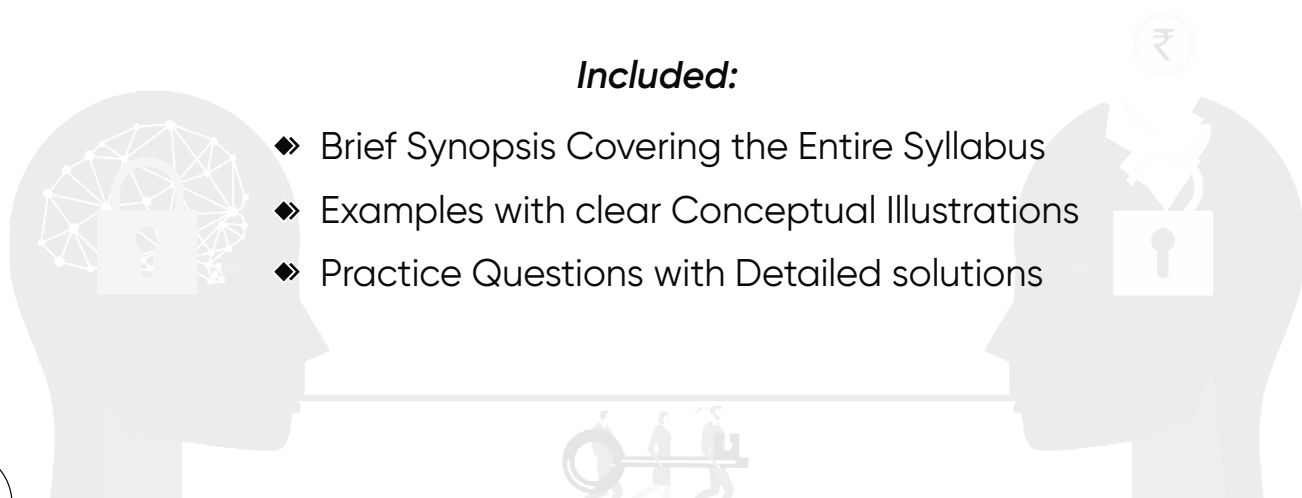
NUMERICAL APTITUDE

Logical Reasoning & Analytical Ability

(Theory with Self Practice Questions)

Included:

- ◆ Brief Synopsis Covering the Entire Syllabus
- ◆ Examples with clear Conceptual Illustrations
- ◆ Practice Questions with Detailed solutions



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Foreword



Dear Students,

The study material for Numerical Aptitude is thoroughly revised this year to meet the requirements of all categories of students. It consists of

- (i) Brief synopsis covering the entire syllabus
- (ii) Worked out examples, concept wise
- (iii) Practice questions with detailed solutions

The students are advised to go through the theory duly understanding the worked out examples to the extent possible and practice the questions. By doing so, the students will get familiarized with some of the concepts and can really enjoy the lecture in the class. Also, the students can interact with the faculty in a better way.

After attending the classes and understanding the typical questions explained by the professors, the student will be in a position to solve these questions in work book. However, for verifying the correctness, Hints/solutions are also given wherever required. The student is advised to struggle to get the solution for the problems in the work book by self analysis and not to refer the solution first.

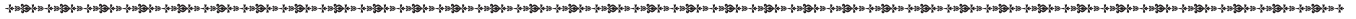
Thanks to all Professors who extended their services in the preparation of this Booklet.

It is believed that this volume is also a valuable aid to the students appearing for competitive exams like ESE, ISRO, State and Central Commissions and other PSUs.

With best wishes to all the Students

Y.V. Gopala Krishna Murthy,
M Tech. MIE,
Chairman & Managing Director,
ACE Engineering Academy,
ACE Engineering Publications,
Frost Interactive Service Pvt. Ltd. (ACE ONLINE).

SYLLABUS



Numerical Aptitude

GATE:

Quantitative Aptitude : Data interpretation: data graphs (bar graphs, pie charts, and other graphs representing data), 2- and 3-dimensional plots, maps, and tables

Numerical computation and estimation: ratios, percentages, powers, exponents and logarithms, permutations and combinations, and series Mensuration and geometry Elementary statistics and probability

Analytical Aptitude :

Logic: deduction and induction, Analogy, Numerical relations and reasoning

Spatial Aptitude : Transformation of shapes: translation, rotation, scaling, mirroring, assembling, and grouping Paper folding, cutting, and patterns in 2 and 3 dimensions

ESE: Engineering Aptitude covering Logical reasoning and Analytical ability

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