Basic Mathematics for Competitive Exam.

Course Contents:

Section I:

1)	Numbers
2)	HCF & LCM
3)	Decimal Fractions
4)	Simplification
5)	Square and Cube roots
6)	Average
7)	Problems on numbers
8)	Problems on Ages
9)	Surds and Indices
10)	Percentage
11)	Profit and Loss
12)	Ratio and Proportion
13)	Partnership
14)	Chain rule
15)	Time and work
16)	Pipes and cisterns
17)	Time and distance
18)	Problems on trains
19)	Boats and streams
20)	Simple and Compound interest
21)	Miscellaneous

Section II:

Data Interpretation

Curriculum:

The course shall be structured to meet the demands of preliminary stage (Mathematics) of any government examination. It shall be a 1 year course comprising of the following cycles:

Cycle A:

Numbers
HCF & LCM
Decimal Fractions
Simplification
Square and Cube roots
Average
Problems on numbers
Problems on Ages
Surds and Indices
Percentage
Profit and Loss

Cycle B:

12)	Ratio and Proportion
13)	Partnership
14)	Chain rule
15)	Time and work
16)	Pipes and cisterns
17)	Time and distance
18)	Problems on trains
19)	Boats and streams

20)	Simple and Compound interest
21)	Miscellaneous

Cycle C:

Data Interpretation/Reasoning

Note:

- 1) Every cycle is of four months duration.
- 2) At the end of every cycle online mock tests will be taken as per the examination pattern.

Course Objectives:

The objective of the course is to introduce the students:

- 1) The basic mathematics to the students. It assumes that the students have minimal knowledge to the subject.
- To help them acquire skills in solving quantitative aptitude by simple methods (mainly based on demonstration).
- 3) During class time students are expected to engage in pair work.
- 4) The main focus of the students will be on quantitative aptitude in short span of time.

Course Outcomes:

- 1) Provide a platform to the students for building the fundamentals of basic mathematics for competitive examinations preparation strategy.
- 2) Establish a framework to help students acquire knowledge and expertise necessary to secure employment opportunities in the Government sector.