

FATIMA COLLEGE (AUTONOMOUS), MADURAI

DEPARTMENT OF MATHEMATICS

2020 - 2021

DEPARTMENT OF MATHEMATICS OFFERS VALUE ADDED CERTIFICATE COURSE ON

SPEED ARITHMETIC

It helps you to prepare for competitive examinations like TNPS TANCET, MAT, ank exams, Railway recruitment etc.

It helps you to solve arithmetical problems in real

life situations # No. of Hours: 60

Course Fee: Rs. 1500/- with GST only

Only **100** seats are available

Admission is according to FIRST COME FIRST SERVE

Rush up!!!

Come and join, Step into your Career

LAST DATE FOR REGISTRATION: 18th January 2021

VALUE ADDED CERTIFICATE COURSE: 2020-2021 SPEED ARITHMETIC - 19UGVACM1

HOURS/WEEK: 2 CREDITS: 2

COURSE OUTCOME:

At the end of the course, the students will be able to

- **CO 1:** Construct the Problems on Ages quantitatively and Solve.
- **CO 2:** Distinguish Profit and Loss problems and Solve
- **CO 3:** Solve Partnership Problems in Business
- **CO 4:** Identify Problems on Time, Work and Distance and Solve
- **CO 5:** Classify Simple Interest and Compound Interest problems and Solve.

UNIT I: PROBLEMS ON AGES, NUMBERS AND SIMPLIFICATION [10 HOURS]

Problems related with ages and numbers, Simplification of numbers

UNIT II: PROFIT AND LOSS, PERCENTAGE, RATIO AND PROPORTION [12 HOURS]

Profit and Loss: Cost Price – Selling Price – Profit or Gain – Loss – Gain percentage - Loss percentage – Ratio and proportion.

UNIT III: PARTNERSHIP, PERMUTATION AND COMBINATION [12 HOURS]

Partnership – Ratio of Division of Gains – Working and Sleeping Partners, Permutations and Combinations – formulae and problems.

UNIT IV: TIME & WORK, TIME AND DISTANCE

[12 HOURS]

Time and Work: Important facts and formulae on time and work –Problems, Time and Distance: Important facts and formulae on speed, time and distance – Problems

UNIT V: SIMPLE INTEREST & COMPOUND INTEREST

[14 HOURS]

Simple Interest: Important facts and formulae on interest, sum, rate and time. Compound Interest: Important facts and formulae on amount when interest is compound: annually-Half-yearly-Quarterly

TEXT BOOK:

R.S. Aggarwal - Quantitative Aptitude for Competitive Examinations, S. Chand & Company Ltd, Revised Edition 2008.

UNIT I : Chapter 4, 7 and 8

UNIT II : Chapter 10, 11 and 12

UNIT III : Chapter 13 and 30

UNIT IV : Chapter 15 and 17

UNIT V : Chapter 21 and 22

REFERENCE BOOKS:

- 1. S.K .Arora , S. Bhasin , Manish Puri Objective Mathematics for all Competitive Examinations.
- 2. R.Gupta Super Quicker Arithmetic.

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DEPARTMENT OF MATHEMATICS



FATIMA COLLEGE (Autonomous)

Re-Accredited with 'A' Grade by NAAC (3rd Cycle)
College with Potential for Excellence
Mary Land, Madurai - 625018

SPEED ARITHMETIC

during the academic year 2020 - 2021 and has been awarded Distinction / First / Second class.

Se. G. Celi Sahny Many

Dr.Sr.G.Celine Sahaya Mary Principal

J.Part

Head of the Department

10 p

Co-ordinator