Post Graduate Department of Mathematics

CERTIFICATE COURSE IN QUANTITATIVE APTITUDE FOR COMPETITIVE EXAMINATIONS

No. of contact hours : 40

Aim of the Course

- To update and expand the basic Mathematical skills and attitudes and equip the students to effectively utilize this knowledge for various competitive examinations.
- To familiarize the language, symbols and notation of Mathematics.
- To develop Mathematical curiosity while solving problems.
- To become confident enough in solving Mathematical problems.
- To develop logical and critical thinking.

Objectives of the course

A. To introduce the basics concepts of Quantitative arithmetic

B. To enhance the problem-solving skills.

C. To improve the basic mathematics skills.

D. To help students who are preparing for any type of competitive examinations.

Course Contents.

Module I

Average

Problems on Ages

Profit and Loss

Ratio and Proportion

Chain Rule

Time and Work

Module II

Time and Distance

Problems on Trains

Boats and Streams

Calendar

Clocks

Permutations and Combinations

Heights and Distances

Module III

Progressions

HCF and LCM of Numbers

Decimal Fractions

Simplification

Allegation or Mixture

Module IV

Simple Interest

Compound Interests

Races and Games of skill

Complex Numbers and Quadratic Equations

Odd Man Out and Series

References

1. R.S. Aggarwal, Quantitative Aptitude for Competitive Examinations, S. Chand Company Ltd, 7th Edition.
2. Abhijit Guha, Quantitative Aptitude for Competitive Examination, Mc Graw Hill Education.
3. Shyam Saraf and Abhilasha Swarup, Quantitative Aptitude and Reasoning, Cengage Learning India Pvt.Ltd.

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15.09.2020   Course Coordinator