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| COURSE TITLE | QUANTITATIVE & LOGICAL ABILITY - 2 |
| COURSE CODE | 01CR0402 |
| COURSE CREDITS | 0 |

Objective:

- 1 This course shall enrich students' preparedness for the upcoming competitive exams, entrance test, and/or placements.
- 2 It will enhance the numerical skills of the students through the group interactions, practice sessions, and videos.
- 3 This course shall enrich students' preparedness for the upcoming competitive exams, entrance test, and/or placements. It will enhance the numerical skills of the students through the group interactions, practice sessions, and videos

Course Outcomes: After completion of this course, student will be able to:

- 1 Inculcate smart approach in quantitative problem solving.
- 2 Build a strong base in the fundamental mathematical concepts.
- 3 Grasp the approaches and strategies to solve problems with speed and accuracy.
- 4 Devise plans for QA domain of the placement drives and competitive exams
- 5 Categorize various types of questions in terms of difficulty levels

Pre-requisite of course:Basic Knowledge of Mathematics

Teaching and Examination Scheme

| Theory Hours | Tutorial Hours | Practical Hours | ESE | IA | CSE | Viva | Term Work |
|---------------------|-----------------------|------------------------|------------|-----------|------------|-------------|------------------|
| 1 | 0 | 0 | 50 | 0 | 0 | 0 | 50 |

| Contents : Unit | Topics | Contact Hours |
|------------------------|---|----------------------|
| 1 | Introduction & Pre-Assessment Test Introduction & Pre-Assessment Test | 1 |
| 2 | Vedic Maths – 1 (Multiplication tricks & Squaring of numbers) 2x2 digit numbers and 3x3 digit numbers Vedic Maths – 1 (Multiplication tricks & Squaring of numbers) 2x2 digit numbers and 3x3 digit numbers | 1 |
| 3 | Types of Numbers & Divisibility Test Types of Numbers & Divisibility Test | 1 |
| 4 | Class Test 1 and doubt solving session Class Test 1 and doubt solving session | 1 |
| 5 | Factors & Multiples Factors & Multiples | 1 |

| Contents : Unit | Topics | Contact Hours |
|----------------------------|---|--------------------------|
| 6 | Cyclicity & Remainder Cyclicity & Remainder | 1 |
| 7 | HCF & LCM HCF & LCM | 2 |
| 8 | Class Test 2 and doubt solving session Class Test 2 and doubt solving session | 1 |
| 9 | Average Average | 1 |
| 10 | AP & GP AP & GP | 1 |
| 11 | Problem Based on Ages/Numbers Problem Based on Ages/Numbers | 1 |
| 12 | Class Test 3 and doubt solving session Class Test 3 and doubt solving session | 1 |
| 13 | Revision Revision | 1 |
| Total Hours | | 14 |

Textbook :

- 1 Quantitative Aptitude, Dr. R. S. Agarwal, S. Chand, 2021
- 2 Quantitative Aptitude, Abhijit Guha, MC Graw Hills, 2020

References:

- 1 Magical Book On Quicker Maths, Magical Book On Quicker Maths, M. Tyra , BSC Publishing Co. Pvt. Ltd, , 2013

Suggested Theory Distribution:

The suggested theory distribution as per Bloom's taxonomy is as follows. This distribution serves as guidelines for teachers and students to achieve effective teaching-learning process

| Distribution of Theory for course delivery | | | | | |
|--|-------------------|--------------|----------------|-----------------|---|
| Remember / Knowledge | Understand | Apply | Analyze | Evaluate | Higher order Thinking / Creative |
| 10.00 | 15.00 | 40.00 | 35.00 | 0.00 | 0.00 |

Instructional Method:

- 1 The course delivery method will depend upon the requirement of content and need of students.
- 2 The trainer shall train students through interactions, demonstration, brainstorming, group tasks, assignments and quizzes etc.

Instructional Method:

- 3 Students will use supplementary resources such as online videos and books.
- 4 The trainer shall train students through slides, worksheets and marker board.

Supplementary Resources:

- 1 www.indiabix.com
- 2 www.careerbless.com
- 3 www.allindiaexams.com
- 4 www.freshersworld.com