BASIRHAT COLLEGE

Department of Mathematics

Add-on Course on

Mathematics for Competitive Examination

(Arithmetic)

Objectives:

The students have already known about several elementary arithmetic tools in school level. But, most of students are not capable to apply all of the tools in a faster way to solve mathematical problems connected with competitive examinations. The aim of this course is to help the students to develop shortcut technique of those arithmetic tools, which would help them for solving various kinds of arithmetic problems, very quickly. It also encourages creative and flexible thinking by allowing students to carry out computations in other mathematical problems associated with different competitive examinations. The objectives (and outcomes) of this course also includes clear, creative and flexible thinking; and a gratefulness for the attractiveness and delight of several arithmetical tools.

Eligibility:

All the students of Basirhat College wish to appear in various Competitive Examination 10+2 level.

Registration:

Interested students are directed to apply in plain A4 page to the HOD, dept. of Mathematics, Basirhat College.

Course Fee:

Free

Course Structure:

This course is divided into 30 hours classes. As per students' demand, it may increase upto 10 hours. The course will be taught in zero hours. Every student will get a course completion certificate subject to at least 80% of total attendance.

Plan of the course:

Day 1	Ratio and Proportions (Basic idea and simple problems)	1
Day 2	Miscellaneous problems of previous years	1
Day 3	Practice with quicker way	1
Day 4	Percentage (Understanding formulae)	1
Day 5	Solving previous years' question papers with quicker way	1
Day 6	Profit and loss, Discount (Fundamental idea)	1
Day 7	Solving previous years' question papers	1
Day 8	Practice with shortcut tricks	1
Day 9	Simple interest (Understanding formulae and common notations)	1
Day 10	Practice with shortcut method	1
Day 11	Simplification	1
Day 12	Decimals	1
Day 13	Recurring Decimals	1
Day 14	Practice the problems connected with decimals and recurring decimals	1
Day 15	Divisibility	1
Day 16	Fractions	1
Day 17	Problem solving session for Divisibility and Fractions	1
Day 18	LCM	1
Day 19	HCF	1
Day 20	Practice with faster way in LCM and HCF	1
Day 21	Partnership (Basic idea)	1
Day 22	Discussion and solution of previous years' questions	1
Day 23	Practice with shortcut techniques	1
Day 24	Average (Introductory idea)	1
Day 25	Practice session on Average	1
Day 26	Time and work (Understanding simple problems)	1
Day 27	Shortcut tricks for solving previous years questions	1
Day 28	Time and distance (Correlate problems with our daily life)	1
Day 29	Deduction of some shortcut techniques to solve the problems on train, boat and streams,	1
Day 30	Discussion of previous years questions and their solution	1
	Total	30

Course Outcomes:

- To develop the skill of basics mathematics for competitive examinations.
- To enhance the chance to crack several competitive examinations.