



## BROCHURE FOR ADD-ON COURSE DEPARTMENT OF MATHEMATICS

**ACADEMIC SESSION-2022-23**

**TITLE OF THE ADD ON COURSE- TEST OF REASONING AND QUANTITAVE APTITUDE  
COURSE COORDINATOR – PROF. SANCHARI GUIN**

### **A) Context:**

The primary goal of higher education, particularly in general streams, has suffered a setback in recent times. Jobs in the academic sector have dried up in West Bengal and administrative jobs in PSUs are getting limited day by day due to various reasons. The pandemic has worsened the situation. As a result of these the prospect of entry in services is going to be more challenging. A mere graduation certificate appears to be a useless piece of paper due to massive unemployment.

### **B) Objective:**

To deal with this emerging crisis, the Department has devised an Add-On Course on *Test of Reasoning and Quantitative Aptitude* to instill among our students a sense of awareness and urgency to meet up the requirement of competitive examinations. A graduate degree enables a student to appear in job oriented examinations that includes inter alia, UPSC and PSC Civil Services, Railway Recruitment Board, Bank Probationary Officers, LIC and other examinations of equal nature. It will be unjust to claim that this Course can provide a comprehensive and extensive preparatory model due to the constraints of time and human resources. The initial objective of this project is to make the students acquainted with the initial and basic parameters of the requirements in *Test of Reasoning and Quantitative Aptitude* of the aforesaid examinations.

### **C) Method Used**

The under graduate students with or without Mathematics as a subject in the curriculum has to encounter diversified Multiple Choice Questions from Reasoning as well as Quantitative Aptitude. The internal faculties of the Department will clear the basic concepts about the fundamentals of Reasoning and Quantitative Aptitude. 30 hours of coursework will have the following components -a) instructional hours =20, b) workouts =9 hours, c) examination =1 hour. After successful completion of the course, a certificate will be issued to the students.

### **D) Target Group and Schedule**

The courses will initially be offered to the immediate pass outs of the year 2020, 2021 and 2022 as well as the existing students of 2<sup>nd</sup> year. In a busy academic schedule it is quite difficult to accommodate such courses, but the primary target will be slack sessions during the even semester examinations during the months of June to September. Schedules of classes will be communicated through notices. The Department will observe the issues regarding the schedule and modus operandi in the first year and necessary changes will be implemented in due course of time.

Moreover, the institution is also targeting the gradually increasing number of girl students in our college most of whom are first generation learners. Most of them are compelled, against their will, to get married due to family and social obligations and lost their opportunity to achieve financial self-sufficiency. This course will enable them to think otherwise by exploring the chances to get a job by cracking the competitive exams.

The course will be completely free of cost for our students as it will be managed by the human and physical resources available internally.

### E) Project Outcome

The enrolled students will acquire knowledge on basic concepts of Reasoning as well as Quantitative Aptitude. This Add-on courses will enable them to deal with the Multiple Choice Questions by providing a holistic approach to the Reasoning and Quantitative Aptitude syllabus of UPSC/PSC/Bank P.O/ etc. examinations. The course will introduce them in the difficult terrains of job oriented market demands. We can judge ourselves as fortunate if a good number of students of our college can achieve success in the competitive examinations in near future.

<b>F) MODULAR BREAK UP OF SYLLABUS</b>			
<b>SL. NO.</b>	<b>THEMATIC UNITS</b>	<b>TIME ALLOTTED IN HRS</b>	<b>ASSIGNMENT</b>
<b>1</b>	Verbal Reasoning - Analogy, Classification, Alphabet Test, Word Formation, Direction Sense, Blood Relations, Problems based on ages, Number Series, Letter Series	5+2	SG AND IH
<b>2</b>	Analytical Reasoning -Logical Venn Diagrams, Syllogism, Statement and Assumptions, Data Sufficiency, Input Output.	5+2	SG AND AC
<b>3</b>	Non Verbal Reasoning - Analogy, Classification, Series, Mirror image, Counting of figures, Formation of figures, Figure Matrix, Cube and Dice. etc	5+2	SG AND IH
<b>4</b>	Quantitative Aptitude - Average, Simplification, Percentage, Profit and Loss, Discount, Simple and Compound Interest, Ratio and Proportion, Unitary method, Work and Time, Work and Wages, Speed Time and Distances, Clock and Calendar, Problems based on Trains, Linear and Quadratic Equations.	5+2	IH AND AC
<b>5</b>	Examination and necessary mentoring	2	SG, AC AND IH
<b>G) References</b>			
1. A Modern Approach to Verbal and Non-verbal Reasoning , R. S. Aggarwal , S. Chand Publishing.			
2. Quantitative Aptitude , Dr. R. S. Aggarwal, S. Chand Publishing.			