Part III, SEC-II: Cocurricular Course

Coordinating Department: Department of Chemistry

(From AY 2016-17 onwards)

Quantitative Aptitude & Reasoning for	160 hrs
Government & Bank Competitive Exams	

Unit.1	General Fundamentals of Mathematics for Competitive Exams Divisibility Test, Simplification, Division algorithm, unit digit in given num root, cube, square root, square, relations of number, introduction to vedic m techniques.	(15 hrs.) nber, cube nathematic		
Unit.2	Arithmetic:	(65 hrs.)		
	HCF & LCM, Average, Percentage, Ratio & Proportion, Profit Loss & Discount,			
	Partnership & Mixture, Simple & Compound Interest, Time Work & Distan	nce, Area,		
	Volume			
Unit.3	Algebra:	(20 hrs.)		
	Permutation & Combination, Probability, Coordinate Geometry, Liner Quadratic equation, Factorization, Polynomials	equation,		
Unit.4	Trigonometry & Geometry:	(25 hrs.)		
	A. Trigonometry: Trigonometric Ratio and Identities, Trigonometric Functions & their Properties, Height and Distance,			
	B. Geometry: Angels & sides related properties, Theorems of Geometry, Protriangles, Similarity & Congruence related Postulates	operties of		
Unit.5	5 Reasoning: (35			

Unit.5 Reasoning:

A. Verbal Reasoning : Alphabet, Series, Analogy, Classification, Coding/Decoding, Blood relationship, Symbols & Notations, Distance & Direction, Ranking/ Arrangement, Input, Syllogism, Problem solving, Cause & Effect, Assumption, Conclusions/ Inferences, Courses of Action. Data sufficiency, Data Analysis and Miscellaneous

B. Non - Verbal Reasoning : Series, Analogy, Classification and Miscellaneous

Practical: Practice Session & Weekly Multiple objective test of 25 marks

Books Recommended:

- 1. Quantitative aptitude by Agrawal R. S., Publishers: S. Chand & Co., New Delhi
- 2. Objective Arrithmatic by Rajesh Verma, Publishers: Arihant Publications (India) Ltd. . New Delhi

Shree M. & N. Virani Science College, Rajkot - CoC

- 3. Quickwer Maths by M. Tyra, Publishers: BSC Publishing Co. Pvt. Ltd., Delhi
- 4. Analytical Reasoning by M K Pandey, Publishers: BSC Publishing Co. Pvt. Ltd., Delhi
- 5. Reasoning by Agrawal R. S, Publishers:Kiran Publication, New delhi.
- 6. Reasoning, Verbal, Non verbal & Analytical by B S Sijwali & Indu Sijwali Publishers: Arihant Publications (India) Ltd. , New Delhi

Evaluation Norms: 100% CIE

100%CIE Components

S.N	Component	Content	Duration	Marks	Sub
					Total
1	Attendance	Theory: Min. 80%	For full 160	10	10
		Practice Session & Weekly	hrs course		
		multiple objective Test:			
		At least 75%			
2	Unit Test	Total 5 unit tests	1 hour each	each 6	30
		(at the end of each unit)		(set for 30)	
3	Assignment	Number decided by coordinator	-	10	10
4	Test	Full syllabus at the end of the	3 hour	50	50
		course			
	•			Total	100

Guidelines for evaluations:

- Only remarks will be given at the end of the course
- A separate certificate on completion of the each course will be issued by the CoE
- All above are compulsory components
- In an event of non-completion of the course, the student has to re-do the course or opt for another one.

At the end of the course no marks be given, only remarks be given as follows:

Range of Marks	Remarks		
90-100	Excellent		
75-89	Very Good		
60-74	Good		
40-59	Fair		
39 and below	Not completed		