

SKILL BASED SUBJECT -I MATHEMATICS FOR COMPETITIVE EXAMINATIONS

Semester	Subject Code	Category	Lecture		Theory		Practical	Credits
III	21SMA3A	Skill based subject -I	Hrs/week	Hrs/Sem	Hrs/week	Hrs/Sem	-	2
			2	30	2	30		

COURSE OBJECTIVES:

The students will be able to

- Apply and establish Mathematical concepts in solving the given aptitude problems.
- Improve problem solving skills using basic Mathematical concepts.

COURSE OUTCOMES:

On the successful completion of the course, the students will be able to

CO Number	CO Statement	Knowledge Level (K1-K4)
CO1	Develop the knowledge about problems on numbers and problems on ages	K1
CO2	Apply the concepts of Ratio and Proportion	K3
CO3	Evaluate the problems on Time and work,time and distance	K3
CO4	Apply the concepts of Calendars and Clocksand Pipe and Cistern	K3
CO5	Acquire the knowledge on Permutations and combinations	K3

Knowledge Level: K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze.

MAPPING WITH PROGRAMME OUTCOMES:

Cos	PO1	PO2	PO3	PO4	PO5	PO6
CO1	S	L	M	S	S	S
CO2	S	M	S	S	S	S
CO3	S	M	S	S	S	M
CO4	S	M	S	S	M	S
CO5	S	L	M	S	M	M

S- Strong: M- Medium: L- Low

Unit-I: **6 Hours**

Problems on numbers - Problems on Ages(Chapter -7, 8)

Unit-II: **6 Hours**

Ratio and proportion (Chapter – 12)

Unit -III: **6 Hours**

Time and work–Time and distance(Chapter – 15,17)

Unit-IV: **6 Hours**

Pipe and Cistern-Problems on Calendars and Clocks(Chapter – 16, 27, 28)

Unit- V: **6 Hours**

Permutations and combinations (Chapter – 30)

TEXT BOOK

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1.	Dr. R.S. Aggarwal	Quantitative Aptitude (for Competitive Examinations), Revised Edition,	S. Chand and Company Ltd., Ram Nagar, New Delhi	Reprint 2012.

REFERENCE BOOKS

S.NO	AUTHORS	TITLE	PUBLISHERS	YEAR OF PUBLICATION
1.	AbhijitGuha	Quantitative Aptitude for all Competitive Examinations	McGraw Hill Education, sixth edition	2016
2.	R.V.Praveen	Quantitative Aptitude and Reasoning	PHI learning private limited, Third edition, Delhi	2016
3.	Dr.N.K.Singh	Quantitative Aptitude Test	UpkarPrakshan	2009

WEB RESOURCES

1. <https://www.careerbless.com/aptitude/qa/home.php>
2. <https://www.toppr.com/guides/quantitative-aptitude>

TEACHING METHODOLOGY

1. Class room Teaching
2. Assignments
3. Seminars
4. Discussions
5. PPT Presentations

SYLLABUS DESIGNER

Dr. N. Nithyapriya, Assistant Professor of Mathematics