

G.VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS)

(Re-Accredited with "A" Grade by NAAC)

Department of B.Sc., Mathematics

U23MA6OE - QUANTITATIVE APTITUDE

Course Code	Course Title	Category	Lecture	Tutorial	Practical	Credit
U23MA6OE	Quantitative Aptitude	Open Elective (Self Study Course)	0	0	0	3

Year	Semester	Internal Marks (CIA)	External Marks (ESE)	Total Marks
III	VI	0	100	100

Course Objectives

- This course aims at developing logical thinking and mathematical reasoning
- The science of coding and decoding is a hallmark in this era of communication and networking

Course Outcomes (COs)

On the completion of the course the student will be able to

CO	Course Outcome	Knowledge Level (RBT)
CO1	remember and understand the basic rules for percentage, profit and loss, mean, median, mode, logical sequence of words, coding, decoding and puzzle test	K1,K2,K3,K4,K5
CO2	apply the basic concepts of mathematical logic to solve problems in competitive exams	K1,K2,K3,K4,K5
CO3	analyze problem solving method of odd man out series, percentage, profit and loss, mean, median, mode, logical sequence of words, coding, decoding and puzzle test	K1,K2,K3,K4,K5
CO4	evaluate the problems in odd man out series, percentage, profit and loss, mean, median, mode, logical Ven diagram, logical sequence of words, coding, decoding and puzzle test	K1,K2,K3,K4,K5
CO5	find the solutions towards simplification related problems on percentage, profit and loss, , mean, median, mode, logical sequence of words, coding, decoding and puzzle test	K1,K2,K3,K4,K5

K1–Remember; K2–Understand; K3–Apply; K4–Analyze; K5–Evaluate; K6–Create

CO-PO and CO-PSO Mapping (Course Articulation Matrix)

COs	POs							PSOs		
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PSO1	PSO2	PSO3
CO1	3	3	2	2	3	2	2	-	-	-
CO2	3	2	2	3	3	1	1	-	-	-
CO3	3	2	1	3	3	1	1	-	-	-
CO4	2	2	2	3	2	1	1	-	-	-
CO5	2	2	1	2	2	1	1	-	-	-
Total	13	11	8	13	13	6	6	0	0	0

(3-Strong, 2-Medium, 1-Low, -No Correlation)

Course Content

Unit I Percentage **Self Study**
Odd man out series – Percentage – Profit and Loss
Chapter -I 11,12, 35 (Text Book I)

Unit II Central Tendency **Self Study**
Mean – Median - Mode.

Chapter -II 2.1-2.3 (Text Book II)

Unit III: Logical Sequence **Self Study**
Logical Ven diagram – Logical sequence of words

Chapter- I : 9 & 14 (Text Book III)

Unit IV Coding **Self Study**
Coding – decoding

Chapter I: 4 (Text Book III)

Unit V Puzzle test **Self Study**
Puzzle test – Classification type questions- seating / placing arrangements – comparison type questions.
Chapter I : 6 Type I, II & III (Text Book III)

Text Books

1. Aggarwal. R. S , 2014, Quantitative Aptitude , S . Chand and Company Ltd., New Delhi.
2. Arumugam. S & Thangapandian Issac. A, 2013, Statistics, New Gamma Publication House, Palayamkottai.
3. Aggarwal R.S, 2005, A Modern approach to Verbal & Nonverbal Reasoning, S. Chand Company Ltd, New Delhi.

Reference Books

1. Aggarwal R.S, 2010, A Modern approach to Verbal & Nonverbal Reasoning, S. Chand Company Ltd.
2. Aggarwal R.S, 2019, A Modern approach to Verbal & Nonverbal Reasoning, S. Chand Company Ltd.

Web Resources

1. <https://www.youtube.com/watch?v=ivE5qNFMDNk>
2. <https://www.youtube.com/watch?v=wwN3mJ-b4FY>
3. Reasoning - Logical Venn Diagrams (tutorialspoint.com)

Course Designer

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