

TABLE OF CONTENTS		PAGE NO
Title Page		i
Certificate by the Supervisor		ii
Declaration by the Research Scholar		iii
Dedication		iv
Acknowledgement		v
Content		vii
List of Tables		x
List of Illustrations		xii
List of Appendices		xiii
CHAPTER-I	INTRODUCTION	1-36
1.1	Training Methods	4
1.2	Stretching	5
1.3	Proprioceptive Neuromuscular Facilitation (PNF) Stretching	7
1.3.1	How PNF Stretch Works	10
1.3.2	Benefits of PNF Stretching	11
1.4	Surya Namaskar	12
1.4.1	Benefits and Importance of Surya Namaskar	15
1.5	Physical Fitness	17
1.6	Importance of Physical Fitness	18
1.6.1	Muscular Endurance	19
1.6.2	Flexibility	20
1.6.3	Muscular Strength	20
1.6.4	Agility	21
1.6.5	Cardio-respiratory Endurance	21
1.7	Physiology	22
1.8	Importance of Physiology on Key Health Parameters	22
1.8.1	Breath Holding Time	23
1.8.2	Resting Pulse Rate	23
1.8.3	Respiratory Rate	24
1.9	Psychology	24
1.10	Importance of Psychology in Present Era	26
1.10.1	Self-confidence	27
1.10.2	Anxiety	27
1.11	Reason for Selection of Topic	28
1.12	Statement of the Problem	29
1.13	Hypotheses	30
1.14	Significance of the Study	31
1.15	Delimitation	32
1.15.1	Dependent Variables	32

1.15.2	Independent Variables	33
1.16	Limitation	33
1.17	Operational Definitions of Important Terms	34
CHAPTER-II	REVIEW OF RELATED LITERATURE	37-89
2.1	Studies on Effects of PNF Stretching	37
2.2	Studies on Effects of Surya Namaskar	63
2.3	Studies on Effects of Isolated and Combined Training	81
2.4	Summary of Literature	89
CHAPTER-III	METHODOLOGY	90-123
3.1	Selection of Subjects	90
3.2	Selection of the Variables	90
3.2.1	Dependent Variables	91
3.2.2	Independent Variables	92
3.3	Experimental Design	92
3.4	Pilot Study	93
3.5	Criterion Measures	94
3.6	Reliability of Data	95
3.6.1	Instrument Reliability	95
3.6.2	Tester's Competency	95
3.6.3	Questionnaire Reliability	96
3.7	Orientation of the Subjects	97
3.8	Training Protocols	97
3.8.1	PNF Stretching Exercises	97
3.8.2	Surya Namaskar Exercises	101
3.8.3	Combined Training	106
3.9	Administration of Tests	107
3.9.1	Muscular Endurance	107
3.9.2	Flexibility	108
3.9.3	Muscular Strength	109
3.9.4	Agility	111
3.9.5	Cardiorespiratory Endurance	112
3.9.6	Breath Holding Time	114
3.9.7	Resting Pulse Rate	115
3.9.8	Respiratory Rate	116
3.9.9	Self-confidence	117
3.9.10	Anxiety	118
3.10	Statistical Technique	119
3.11	Flow chart depicting the methodology adopted in this study	121

CHAPTER IV	RESULT AND DISCUSSIONS	122-126
4.1	Overview	122
4.2	Test of Significance	123
4.3	Level of Significance	123
4.4	Computation of Analysis of Covariance and Scheffe's Post Hoc Test on Selected Variables	124
4.5	Results on Muscular Endurance	124
4.5.1	Discussion on the Findings of Muscular Endurance	127
4.6	Results on Flexibility	128
4.6.1	Discussion on the Findings of Flexibility	131
4.7	Results on Muscular Strength	132
4.7.1	Discussion on the Findings of Muscular Strength	135
4.8	Results on Agility	136
4.8.1	Discussion on the Findings of Agility	139
4.9	Results on Cardiorespiratory Endurance	140
4.9.1	Discussion on the Findings of Cardiorespiratory Endurance	143
4.10	Results on Breath Holding Time	144
4.10.1	Discussion on the Findings of Breath Holding Time	147
4.11	Results on Resting Pulse Rate	148
4.11.1	Discussion on the Findings of Resting Pulse Rate	151
4.12	Results on Respiratory Rate	152
4.12.1	Discussion on the Findings of Respiratory Rate	155
4.13	Results on Self-confidence	156
4.13.1	Discussion on the Findings of Self-confidence	159
4.14	Results on Anxiety	160
4.14.1	Discussion on the Findings of Anxiety	163
4.15	Discussion on Hypotheses	164
CHAPTER-V	SUMMARY CONCLUSION AND RECOMMENDATIONS	167-169
5.1	Summary	167
5.2	Conclusions	168
5.3	Recommendations	169
BIBLIOGRAPHY		170-179
	Books	170
	Journals	172
	Unpublished Dissertation	179
	Appendices	180
	Reprints	194