## TABLE OF CONTENTS

		Page No.
CER	TIFICATE OF SUPERVISOR	ii
DECLARATION BY THE SCHOLAR		iii
ACK	KNOWLEDGEMENT	iv
DED	DICATION	vi
TAB	LE OF CONTENTS	vii
LIST	T OF TABLES	xii xiii
LIST	F OF FIGURES	
LIST	T OF APPENDICES	xiv
INT	RODUCTION	1-54
1.1	HISTORY OF CRICKET	1
	1.1.1 Early Cricket Origin	2
	1.1.2 Derivation of the Name of Cricket	2
	1.1.3 Cricket Moves out of England	3
	1.1.4 Development of the Laws	3
	1.1.5 Growth of Test Cricket	4
	1.1.6 World Series Cricket	5
	1.1.7 Limited-Over Cricket	5
1.2	CRICKET IN INDIA	7
	1.2.1 History of Cricket in India to 1918	7
	1.2.2 Cricket in India from 1918-19 to 1945	8
1.3	CRICKET	9
1.4	FITNESS FOR CRICKET	15
1.5	CRICKET BATTING	16
1.6	CRICKET: THE PHYSICS OF HOW	
	THE BALL IS BOWLED	20
1.7F	IELDING	23
	1.7.1 Strength	24

			Page No.
	1.7.2	Stamina and Endurance	24
	1.7.3	Speed	25
	1.7.4	Coordination and Agility	25
	1.7.5	Accuracy and Power	25
	1.7.6	Flexibility	25
1.8	THE P	PHYSICAL DEMANDS OF	
	PROF	ESSIONAL CRICKET	27
1.9	CRICI	KET STRENGTH TRAINING	
	AND I	EXERCISES	27
	1.9.1	Bowler	28
	1.9.2	Fielder	28
	1.9.3	Batsman	29
	1.9.4	Cricket Fitness	30
	1.9.5	Physical Demands of Cricket	31
	1.9.6	Demands of Fast Bowlers	31
	1.9.7	Demands for Batsmen	32
	1.9.8	Demands for Spin Bowlers	32
	1.9.9	Demands of Wicket Keeping	32
	1.9.10	Physical Fitness and Cricket	33
	1.9.11	Ten Principles of Cricket Fitness	37
	1.9.12	Cricket and Speed	39
	1.9.13	Cricket and Strength	40
	1.9.14	Cricket and Flexibility	41
	1.9.15	Aims of Sports Training	42
	1.9.16	Weight Training	42
	1.9.17	Circuit Training	43
	1.9.18	Interval Strength Training	45
	1.9.19	High Intensity Interval Training / Metabolic	
		Resistance Training	45
	1.9.20	Tabata Intervals	46

ix

					Page	No.
		1.9.21	Rationale	of the Study		47
		1.9.22	Statement	of the Problem		48
		1.9.23	Hypothese	es		49
		1.9.24	Significan	ace of the Study		49
		1.9.25	Delimitati	ons		50
		1.9.26	Independe	ent Variables		51
		1.9.27	Dependen	t Variables		51
		1.9.28	Physical V	Variables		51
		1.9.29	Performar	nce Variables		51
		1.9.30	Limitation	ns		52
		1.9.31	Definition	as and Explanation of Important	Terms	52
			1.9.31.1	Speed		53
			1.9.31.2	Strength		53
			1.9.31.3	Explosive Power		53
			1.9.31.4	Agility		53
			1.9.31.5	Endurance		53
			1.9.31.6	Batting		53
			1.9.31.7	Bowling		54
			1.9.31.8	Fielding		54
II	<b>REV</b> ]	IEWS OF	RELATE	D LITERATURE	<b>5</b> 5.	-98
	2.1	REVIE	WS ON PH	YSICAL VARIABLES		55
	2.2	REVIE	WS ON PEI	RFORMANCE VARIABLES		86
	2.3	OVERV	IEW ON T	THE REVIEWS		98
III	MET	HODOL	OGY		99-1	116
	3.1	INTRO	DUCTION			99
	3.2	SELEC'	TION OF S	UBJECTS		99
	3.3	EXPER	IMENTAL	DESIGN		99
	3.4	SELEC'	TION OF V	ARIABLES	1	101
		3.4.1	Physical Fit	ness Variables	1	101
		3.4.2	Cricket Skil	l Performance Variables	1	101

			Page No.
	3.5	ORIENTATION OF SUBJECTS	102
	3.6	RELIABILITY OF DATA	102
	3.7	INSTRUMENT RELIABILITY	102
	3.8	TESTER'S RELIABILITY	102
	3.9	SUBJECT RELIABILITY	103
	3.10	COLLECTION OF DATA	104
	3.10		104
	3.11		104
	3.13	ADMINISTRATION OF TESTS	105
	3.14	STRENGTH (PUSH – UPS)	106
	3.15	LEG EXPLOSIVE POWER	106
	3.16	,	107
	3.17	ENDURANCE: (12 MINUTES COOPER	
		RUN / WALK TEST)	108
	3.18	PERFORMANCE VARIABLE	
		(CRICKET PLAYING ABILITY)	109
		3.18.1 Batting	109
		3.18.2 Bowling	109
		3.18.3 Fielding and Wicket Keeping	110
	3.19	TRAINING PROTOCOL	110
	3.20	WEIGHT TRAINING PROGRAMME	113
	3.21	CIRCUIT TRAINING PROGRAMME	114
	3.22	INTERVAL STRENGTH TRAINING PROGRAMM	E 115
	3.23	STATISTICAL ANALYSIS OF DATA	116
IVRESULTS AND DISCUSSION 117-14'			17-147
	4.1	OVERVIEW	117
	4.2	LEVEL OF SIGNIFICANCE	118
	4.3	DISCUSSION ON PHYSICAL VARIABLES	138

			Page No.	
	4.4	DISCUSSION ON THE PERFORMANCE		
		VARIABLES	142	
	4.5	DISCUSSION ON HYPOTHESES	145	
V	SUM	SUMMARY, CONCLUSIONS		
	AND	RECOMMENDATIONS	148-152	
	5.1	SUMMARY	148	
	5.2	CONCLUSIONS	150	
	5.3	RECOMMENDATIONS	151	
	BIBI	BIBLIOGRAPHY		
	APP	159-184		