CONTENTS

s.no.	PARTICULARS	PAGE NO.
		3
	CERTIFICATE	i
	ACKNOWLEDGEMENT	if
	LIST OF TABLES	VII
	LIST OF GRAPHS	viii
CHAPTE	ERS	
I	INTRODUCTION	
	Section-I	
	Science and Education	1
	Section-II	
	Cognitive Development	13
	Section-III	
	About the Study	18
	Statement of the Problem	18
	Objectives of the study	18
•	Hypotheses	19
	Limitations of the Study	19
	Technical Terms	20
	About the dissertation	21
II.	REVIEW OF THE RELATED LITERATURE	
	Part-A	
	Theoritical literature on	24
	intelligence	
	Part-B	
	Research studies on Science	35

III.	PLAN AND PROCEDURE Introduction 41		
	Method of procedure	42	
	Selection of Schools	43	
	Tools used	43	
	Method of analysis of data	47	
IV	ANALYSIS AND INTERPRETATION OF DATA Section-I		
	Selection of Gifted, Noramal and Below Normal pupils by administering Cattell and Cattell culture fair intelligence test	49	
	Section-II		
	To study ability to state hypotheses and ability to test hypotheses at different age group during adolescence	51	
	Section-III		
	The relationship between the ability to do controlled experimentation and achievement in science (Testing of Hypotheses)	64	
	Section-IV		
	't' test interpretation	125	
V.	SUMMARY AND CONCLUSIONS		
	Introduction	138	
	Statement of the Problem	141	
	Significance of the study	141	



Limitations of the study	142
Objectives of the study	143
Research Hypotheses	143
Research Design of the study	144
Sample	145
Data ga thering tools	145
Collection of data	145
Techniques used for the Analysis	146
of Data	
Findings of the study	146
Educational Implications	147
Suggestions for further Research	148
References	150
Appendices	161