

TABLE OF CONTENTS

ACKNOWLEDGEMENT	Page
ABSTRACT	(ii)
CONTENTS	(iii)
LIST OF TABLES	(v)
LIST OF FIGURES	(viii)
LIST OF FIGURES	(x)
 CHAPTER 1: Introduction	 1
1.1 Objective of the Study	6
1.2 Importance of Study	6
1.3 The Malaysian Education System	7
1.4 Organization of the study	9
 CHAPTER 2: Literature Review	 10
2.1 Introduction	10
2.2 Stages of Development	11
2.2.1 Cognitive Development	12
2.2.2 Social Development	13
2.2.3 Intellectual Development	14
2.3 Factors in Motivation	15
2.4 Study Habits and Academic Achievement	16
2.5 Factors Affecting Academic Achievement	18
2.5.1 School Characteristic	18
2.5.2 Social Economic Status (SES)	22
2.5.3 The Parents Influence	23
2.5.4 Responsibility of the Student	24
2.6 Model of Student Performance	25
2.7 Science and Mathematics Achievement	28
2.8 Language Development	31
 CHAPTER 3: Methodology	 33
3.1 Introduction	33
3.2 Data	33
3.3 Definition of Terms and Variables	35
3.3.1 Academic Achievement	35
3.3.2 Stream of Study	36
3.3.3 Location of Primary School and Childhood Residence	37

3.3.4 Socio-Economic Status (SES)	37
3.3.5 Dependent and Independent Variable	38
3.4 Statistical Techniques	41
CHAPTER 4: Background of Respondents	44
4.1 Introduction	44
4.2 Demographic Characteristic of Students	44
4.3 Family Size	48
4.4 Relationship With Present Guardian	49
4.5 Socio-Economic Status of Parents	50
4.6 Education Background of Students	55
4.6.1 Stream of Study	55
4.6.2 Location of School	56
4.6.3 Medium of Instruction at Primary School	57
4.6.4 Examination Performance of Student in the SPM Examination	58
4.6.5 Other Indicators of Academic Interest	61
4.7 Summary	63
CHAPTER 5: Factors Affecting Performance In Selected Subjects	64
5.1 Introduction	64
5.2 Differential Subjects Performance By Student's Gender, Ethnicity And Childhood Residence	65
5.3 Differential in Subject Performance By Selected Home Environment Variables	72
5.4 Differentials in Subject Performance By Medium of Instruction	83
5.5 Differentials in Subject Performance Prior Achievement In The Respective Subjects	87
5.6 Summary	92
CHAPTER 6: Regression Analysis	93
6.1 Introduction	93
6.2 Determinants Of Academic Performance in Selected Subjects	93
6.3 Results and Discussion	95
6.3.1 Regression Analysis of Performance in Bahasa Malaysia	95
6.3.2 Regression Analysis of Performance in English	97
6.3.3 Regression Analysis of Performance in Mathematics	100
6.4 Logistic Regression Analysis	107

CHAPTER 7: Conclusion	112
7.1 Introduction	112
7.2 Summary of Findings	113
REFERENCES	118
APPENDIX	127

List of Tables

	Page
1.1 Student Enrolment By Levels of Education in Local Public Institutions	1
1.2 Enrolment in Upper Secondary Schools by Stream, 1990–2000	8
2.1 Percentage Distribution of Degrees Earned by Women in Quantitative Fields	30
3.1 Distribution of Students by Stream of Study and Gender	36
3.2 Selected Independent Variables Used In The Analysis	39
4.1 Distribution Of Students By Ethnicity, Gender, Childhood Residence and Birth Order	45
4.2 Percentage Distribution of Number Of Children in Respondent's Family	48
4.3 Percentage Distribution of Student–Guardian Relationship Ratings	50
4.4 Percentage Distribution of Father's Education Level by Selected Variables	51
4.5 Percentage Distribution of Father's Income Level by Selected Variables	52
4.6 Percentage Distribution of Father's Occupational Sector by Selected Variables	54
4.7 Percentage Distribution of Student's Stream of Study by Gender, Ethnicity and Childhood Residence	55
4.8 Percentage Distribution Of The Student's Medium of Instruction by Ethnicity	57
4.9 Percentage Distribution of Grades of Selected Subjects in SPM Examination	59
4.10 Descriptive Statistics of Selected Subjects Grades in SPM Examination	61
4.11 Frequency of Reading Newspaper, Text and Reference Books (Percentage)	62
5.1 Percentage Distribution of Subject Grades by Gender	65
5.2 Percentage Distribution of Subject Grades By Childhood Residence	68
5.3 Percentage Distribution Of Subject Grades By Family Size	72
5.4 Mean Grades By Father's Education Level	73
5.5 Percentage Distribution Of Subject Grades By Father's Income Level	77
5.6 Distribution of Father's Education and Income Level by Occupational Sector	80
5.7 Mean Grades By Father's Occupation Sector.	81
5.8 Mean Grades By Medium Of Instruction	85
5.9 Differential in Subject Performance By Stream Of Study	86
5.10 Summary Of Descriptive Statistics Of Subject Grades	88
5.11 Percentage Distribution of SPM grades in Bahasa Malaysia by Performance in SRP	89
5.12 Percentage Distribution of SPM grades in English by Performance in SRP	90
5.13 Percentage Distribution of SPM grades in Mathematics by Performance in SRP	91

6.1	Independent Variables and the Corresponding Reference Categories	94
6.2	Regression Results of Bahasa Malaysia Grades	96
6.3	Regression Results of SPM English Grades	99
6.4	Regression Results of Mathematics Grades	101
6.5	Significant Variables in the Regression Analysis for Respective Subjects	102
6.6	Logistic Regression Analysis on the Likelihood of Students Being High Achievers in Bahasa Malaysia	108
6.7	Logistic Regression Analysis on the Likelihood of Students Being High Achievers in English	109
6.8	Logistic Regression Analysis on the Likelihood of Students Being High Achievers in Mathematics	110

List of Figures

	Page
1 Conceptual Framework of Youth Development and Educational Performance	26
4.1 Gender Differentials in Childhood Residence	47
4.2 Ethnic Differentials in Childhood Residence	47
4.3 Mean Family Size by Ethnicity	49
5.1 Performance in Bahasa Malaysia By Ethnicity	69
5.2 Performance in English By Ethnicity	70
5.3 Performance in Mathematics By Ethnicity	71
5.4 Father's Education Level And Performance In Bahasa Malaysia	74
5.5 Father's Education Level And Performance In English	75
5.6 Father's Education Level And Performance In Mathematics	75
5.7 Father's Occupation Sector And Performance In Bahasa Malaysia	78
5.8 Father's Occupation Sector And Performance In English	81
5.9 Father's Occupation Sector And Performance In Mathematics	82
5.10 Medium Of Instruction And Performance In Bahasa Malaysia	83
5.11 Medium Of Instruction And Performance In English	84
5.12 Medium Of Instruction And Performance In Mathematics	85
6.1 Histogram and Normal Probability Plots for Distributions of Subject Grades	104