

COLLEGE OF INFORMATION TECHNOLOGY  
AND COMPUTER SCIENCE  
UNIVERSITY STUDENTS' LEARNING CENTER, MEDAN CITY UNIVERSITY



A THESIS

THE EFFECT OF INFORMATION TRANSFER  
AND CONNECTION QUESTIONS TECHNIQUES  
ON STUDENTS' READING COMPREHENSION ACHIEVEMENT

By

AMANAH

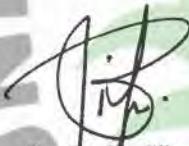
Register Number : 025010049

English Applied Linguistics Study Program  
State University of Medan

This thesis was examined on March 4<sup>th</sup>, 2010 by the Board of Examiners

Approved by  
Adviser Commissions

First Adviser



Dr. Berlin Sibarani, M.Pd  
NIP 19570615 198203 1 005

Second Adviser



Prof. Tina Mariany A, M.A, Ph.D  
NIP 19440302 196902 2 001

The Head of English Applied  
Linguistics Study Program



Prof. Dr. Bushin Gunung, M.Pd.  
NIP 19590713 198601 1 001

The Director of School of  
Postgraduate Studies



Prof. Dr. Boferik Manullang  
NIP 19471015 197412 1 001

APPROVAL

This Thesis was examined on March 4<sup>th</sup>, 2010 by Board of Examiners

Board of Examiners

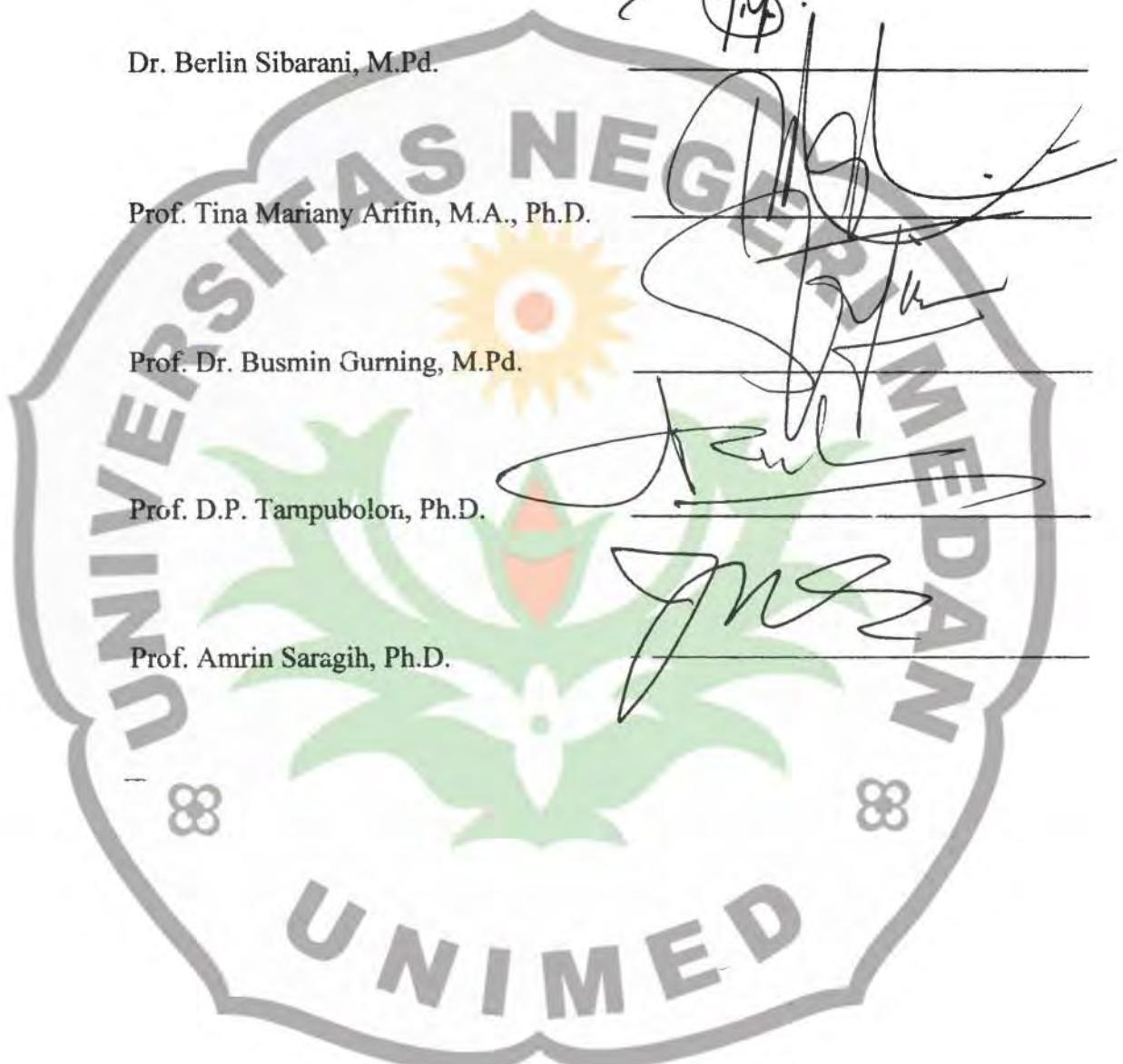
Dr. Berlin Sibarani, M.Pd.

Prof. Tina Mariani Arifin, M.A., Ph.D.

Prof. Dr. Busmin Gurning, M.Pd.

Prof. D.P. Tampubolon, Ph.D.

Prof. Amrin Saragih, Ph.D.



## **ACKNOWLEDGEMENTS**

Praise be to God, the "Almighty", the "Merciful", and the " Most Beneficial" for His Mercy and Beneficial without which the writer would have never been able to complete her thesis in obtaining the degree of Master of Hurnaniora of the English Applied Linguistics Study Program, Postgraduate School, State University of Medan.

The completion of this thesis would have never been possible without the assistance of many people though it would not be possible to mention all, but some deserve a special note of thankfulness for their valuable advice, suggestions, and guidance in the process of writing of this thesis.

First and foremost, the writer owes more than she can express to Prof. Dr. Busmin Gurning, M.Pd., Head of English Applied Linguistics Study Program, and Prof. Lince Sihombing, M.Pd, for the special care, attention, encouragement, and full support given to her until she is aware that this thesis should be completed in due course. The writer has been fortunate to have very excellent advisers and she would like to convey her deepest gratitude to Dr. Berlin Sibarani, M. Pd., her First Adviser and Prof. Tina Mariany Arifin, M.A., Ph.D., her Second Adviser, for the advice, motivation, support and assistance in correcting, revising and directing the concept of the thesis. It is obvious that without their assistance, advice and guidance, this thesis would never have been completed.

The writer is greatly indebted to all lecturers, tutors and staff of the English Applied Linguistics Study Program, Postgraduate School, State University of Medan for the valuable lectures, tutorials, and knowledge during her studies and she would like to express her appreciation to her reviewers and examiners: Prof. D.P

Tampubolon, Ph.D., Prof. Amrin Saragih, M.A., Ph.D and Prof. Dr. Busmin Gurning, M.Pd. for the valuable input given to improve her thesis.

Her special thank is extended to the Principal of State Junior High School 3 Lubuk Pakam, Drs. Fadlan, for the golden opportunity provided for her to conduct the study. She would particularly like to thank her beloved husband, Yusnaldi, M.Pd. and her sons, Muhammad Zhafran Yusmansyah and Dzakwan Sajid Yusmansyah for the care, motivation, support, prayers and love and many others that have been given to her. She would like to thank her family, father, Aming, mother, Zarhaniah, sisters, Aliyah, S.H., Saniah, S.Pd., Zuraidah, S.E., Siti Rahmi, S.Pd., brother, Jafar Siddik, S.E., brothers in law, Yoshodial, S.H., M. Tampubolon, Syahbudi Pohan, Armansyah, S.Pd. and sister in law, Tirama Sombolon, S.Si., whose love, support, advice and care have helped her more than they can know.

Finally, she is also grateful to the following people: Prof. H. Anwar Pane and Hj. Marlina Siregar for the support and advice, Isli Iriani Indiah Br Pane, M. Hum. and her family, Mahmud Layan Hutasuhut, M. Hum., Drs. Suriadi, M.Pd and his family, Suwito Setiadi, S.Pd. and his family, Delfina, S.Pd and her family, Aminah, S.Pd and her family and Astro Julida Harahap, M.Hum. for the support, help and prayers and the English language teachers of State Junior High School.

May Allah Bless Us!

Medan, February 2010

The Writer,

Amanah  
Registration Number:025010049

## TABLE OF CONTENTS

	Page
<b>ABSTRACT .....</b>	i
<b>ACKNOWLEDGMENTS .....</b>	ii
<b>TABLE OF CONTENTS .....</b>	iv
<b>LIST OF TABLES .....</b>	vii
<b>LIST OF FIGURES .....</b>	viii
<b>LIST OF HISTOGRAM .....</b>	ix
<b>LIST OF APPENDICES .....</b>	x
<b>CHAPTER I INTRODUCTION .....</b>	1
1.1 The Background of the study .....	1
1.2 The Problem of the Study .....	7
1.3 The Objective of the Study .....	7
1.4 The Scope of the Study .....	7
1.5 The Significance of the study .....	8
<b>CHAPTER II REVIEW OF LITERATURE .....</b>	10
2.1 Students' Achievement .....	10
2.2 Reading .....	11
2.3 Comprehension .....	13
2.4 Reading Comprehension .....	13
2.5 Levels of Comprehension .....	16
2.5.1 Literal Comprehension .....	16
2.5.2 Inferential Comprehension .....	17
2.5.3 Evaluation .....	18
2.2.4 Appreciation .....	18
2.6 Cycles and Stages in Reading Comprehension Instruction .....	18
2.7 Information Transfer .....	20

2.7.1 Reading and Matching .....	23
2.7.2 Reading and Labeling .....	24
2.7.3 Reading and Completing .....	25
2.7.4 Reading and Drawing .....	26
2.7.5 Jigsaw Procedure .....	26
2.7.6 Enquiry Strategy .....	27
2.8 Connection Questions.....	28
2.9 The Assessments of Reading Comprehension .....	34
2.10 Conceptual Frame of Work .....	37
2.9 Hypotheses .....	40
<b>CHAPTER III RESEARCH METHOD .....</b>	<b>41</b>
3.1 Research Design .....	41
3.2 Location of the Study .....	41
3.3 Population and Sample .....	42
3.3.1 Population .....	42
3.3.2 Sample .....	42
3.4 The Variables .....	43
3.5 The Instrument of Data Collection .....	43
3.5.1 The Validity of the Test .....	44
3.5.2 The Reliability of the Test .....	45
3.5.3 Discrimination Index .....	46
3.5.4 Index of Difficulty .....	47
3.5.5 Test Item Validity .....	48
3.6 The Procedure of Data Collection .....	49
3.6.1 Preparation .....	50
3.6.2 Pre-test.....	50
3.6.3 Treatment .....	50
3.6.4 Post-test .....	51

3.7 Technique of Data Analysis .....	51
<b>CHAPTER IV DATA ANALYSIS .....</b>	<b>52</b>
4.1 Data Description .....	52
4.1.1 Data Distribution of Control Group .....	52
4.1.2 Data Distribution of Experimental Group 1 (Information Transfer) .....	57
4.1.3 Data Distribution of Experimental Group 2 (Connection Question) .....	61
4.1.4 Gain Score of Control Group, Experimental Group 1 and Experimental Group 2 .....	66
4.2 Prerequisite Analysis .....	69
4.2.1 Test of Normality .....	69
4.2.2 Test of Homogeneity .....	70
4.3 Hypothesis Testing .....	71
4.4 Research Findings and Discussion .....	74
4.4.1 Research Findings .....	74
4.4.2 Discussion .....	74
4.4.3 Research Limitation .....	77
<b>CHAPTER V CONCLUSIONS, IMPLICATIONS AND SUGGESTIONS .....</b>	<b>78</b>
5.1 Conclusions .....	78
5.2 Implications .....	78
5.3 Suggestions .....	81
<b>REFERENCES.....</b>	<b>83-85</b>

## LIST OF TABLES

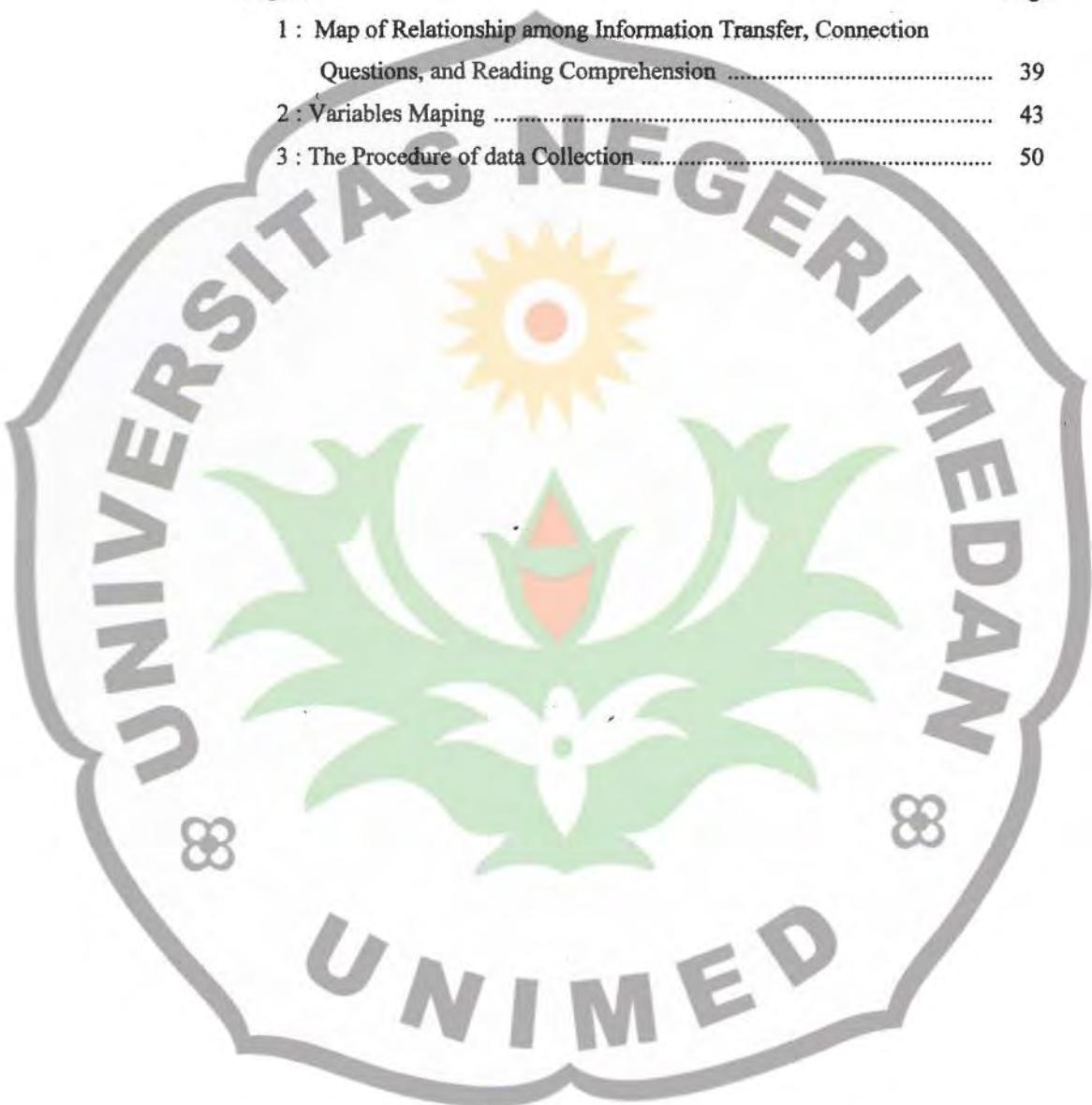
Tables	Page
1 : Factorial Design .....	41
2 : The Outline of Reading Comprehension Test .....	45
3 : Data Distribution of Pretest, Posttest, and Gain Scores of Control Group .....	52
4 : Distribution of Pretest Score Frequency of Control Group .....	53
5 : Distribution of Posttest Score Frequency of Control Group .....	55
6 : Distribution of Gain Score Frequency of Control Group .....	56
7 : Data distribution of Pretest, Post-test, and Gain Scores of Experimental Group 1 .....	57
8 : Distribution of Pre-test Score Frequency of Experimental Group 1 .....	58
9 : Distribution of Post-test Score Frequency of Experimental Group 1 .....	59
10: Distribution of Gain Score Frequency of Experimental Group 1 .....	60
11: Data Distribution of Pre-test, Post-test, and Gain Scores of Experimental Group 2 .....	62
12: Distribution of Pre-test Score Frequency of Experimental Group 2 .....	63
13: Distribution of Post-test Score Frequency of Experimental Group 2 .....	64
14: Distribution of Gain Score Frequency of Experimental Group 2 .....	65
15: Gain Score Distribution of Control Group, Experimental Group 1 and Experimental Group 2 .....	67
16: One-Sample Kolmogorov Smirnov Test .....	70
17: Test of Homogeneity of Variance .....	71
18: Analysis of Variance .....	71
19: Tukey Test to test means differences .....	72

## LIST OF TABLES

Tables	Page
1 : Factorial Design .....	41
2 : The Outline of Reading Comprehension Test .....	45
3 : Data Distribution of Pretest, Posttest, and Gain Scores of Control Group .....	52
4 : Distribution of Pretest Score Frequency of Control Group .....	53
5 : Distribution of Posttest Score Frequency of Control Group .....	55
6 : Distribution of Gain Score Frequency of Control Group .....	56
7 : Data distribution of Pretest, Post-test, and Gain Scores of Experimental Group 1 .....	57
8 : Distribution of Pre-test Score Frequency of Experimental Group 1 .....	58
9 : Distribution of Post-test Score Frequency of Experimental Group 1 .....	59
10: Distribution of Gain Score Frequency of Experimental Group 1 .....	60
11: Data Distribution of Pre-test, Post-test, and Gain Scores of Experimental Group 2 .....	62
12: Distribution of Pre-test Score Frequency of Experimental Group 2 .....	63
13: Distribution of Post-test Score Frequency of Experimental Group 2 .....	64
14: Distribution of Gain Score Frequency of Experimental Group 2 .....	65
15: Gain Score Distribution of Control Group, Experimental Group 1 and Experimental Group 2 .....	67
16: One-Sample Kolmogorov Smirnov Test .....	70
17: Test of Homogeneity of Variance .....	71
18: Analysis of Variance using SPSS 11,5 .....	71
19: Tuckey Test to test means differences .....	72

## LIST OF FIGURES

Figures		Page
1 : Map of Relationship among Information Transfer, Connection Questions, and Reading Comprehension .....		39
2 : Variables Mapping .....		43
3 : The Procedure of data Collection .....		50



## LIST OF HISTOGRAMS

Histogram	Page
1 : Distribution of Pre-test Score Frequency of Control Group .....	54
2 : Distribution of Post-test Score Frequency of Control Group .....	55
3 : Distribution of Gain Score Frequency of Control Group .....	56
4 : Distribution of Pre-test Score Frequency of Experimental Group 1 .....	59
5 : Distribution of Post-test Score Frequency of Experimental Group 1 .....	60
6 : Distribution of Gain Score Frequency of Experimental Group 1 .....	61
7 : Distribution of Pre-test Score Frequency of Experimental Group 2 .....	64
8 : Distribution of Post-test Score Frequency of Experimental Group 2 .....	65
9 : Distribution of Gain Score Frequency of Experimental Group 2 .....	66
10 : Gain Score Data and Normal Curve in Control Group .....	68
11 : Gain Score Data and Normal Curve in Experimental Group 1 .....	68
12 : Gain Score Data and Normal Curve in Experimental Group 2 .....	69
13 : Mean Differences .....	72

## LIST OF APPENDICES

Appendix	Page
A : Reading and Matching .....	86
B : Reading and Labeling .....	87
C : Reading and Completing .....	88
D : Reading and Drawing .....	89
E : Jigsaw Procedure .....	89
F : Inquiry Strategy .....	91
G : Research Instrument .....	92
H : Answer Key .....	105
I : The Computation of Test Item Validity .....	106
J : Reliability Analysis of Test Item .....	108
K : Index of Discrimination and Difficulty Item .....	112
L : The Data of Control Group .....	117
M : The Data of Experimental Group 1 .....	118
N : The Data of Experimental Group 2 .....	119
O : Test of Normality .....	120
P : The Statistics Data of Control Group .....	125
Q : The Statistics Data of Experimental Group 1 .....	130
R : The Statistics Data of Experimental Group 2 .....	135
S : The Computation of Frequency Distribution .....	140
T : Test of Homogeneity .....	141
U : The Analysis of Variance .....	144
V : Tukey's HSD Computation .....	148
W : Lesson Plan .....	150
X : Table of F Distribution .....	206
Y : Table of Chi Squared .....	209
Z : Table of Studentized Range Statistic .....	210

