

CONTENT

	Page
Validation Sheet	<i>i</i>
Biography	<i>ii</i>
Abstract	<i>iii</i>
Preface	<i>iv</i>
Content	<i>vi</i>
Figure List	<i>ix</i>
Table List	<i>x</i>
Appendix List	<i>xi</i>
 CHAPTER I INTRODUCTION	
1.1. Background	1
1.2. Problem Identification	4
1.3. Limitation Problem	4
1.4. Formulation of Problem	4
1.5. Objective of Research	5
1.6. Benefit of Research	5
 CHAPTER II REVIEW REFERENCCESS	
2.1. Theoretical Review	6
2.1.1. Learning Definition	6
2.1.2. Learning Outcomes	6
2.1.3. Effectiveness	9
2.1.4. Learning Theory of Constructivism	11
2.1.5. 5E Learning Cycle	12
2.1.6. Direct Instruction Learning Model	17

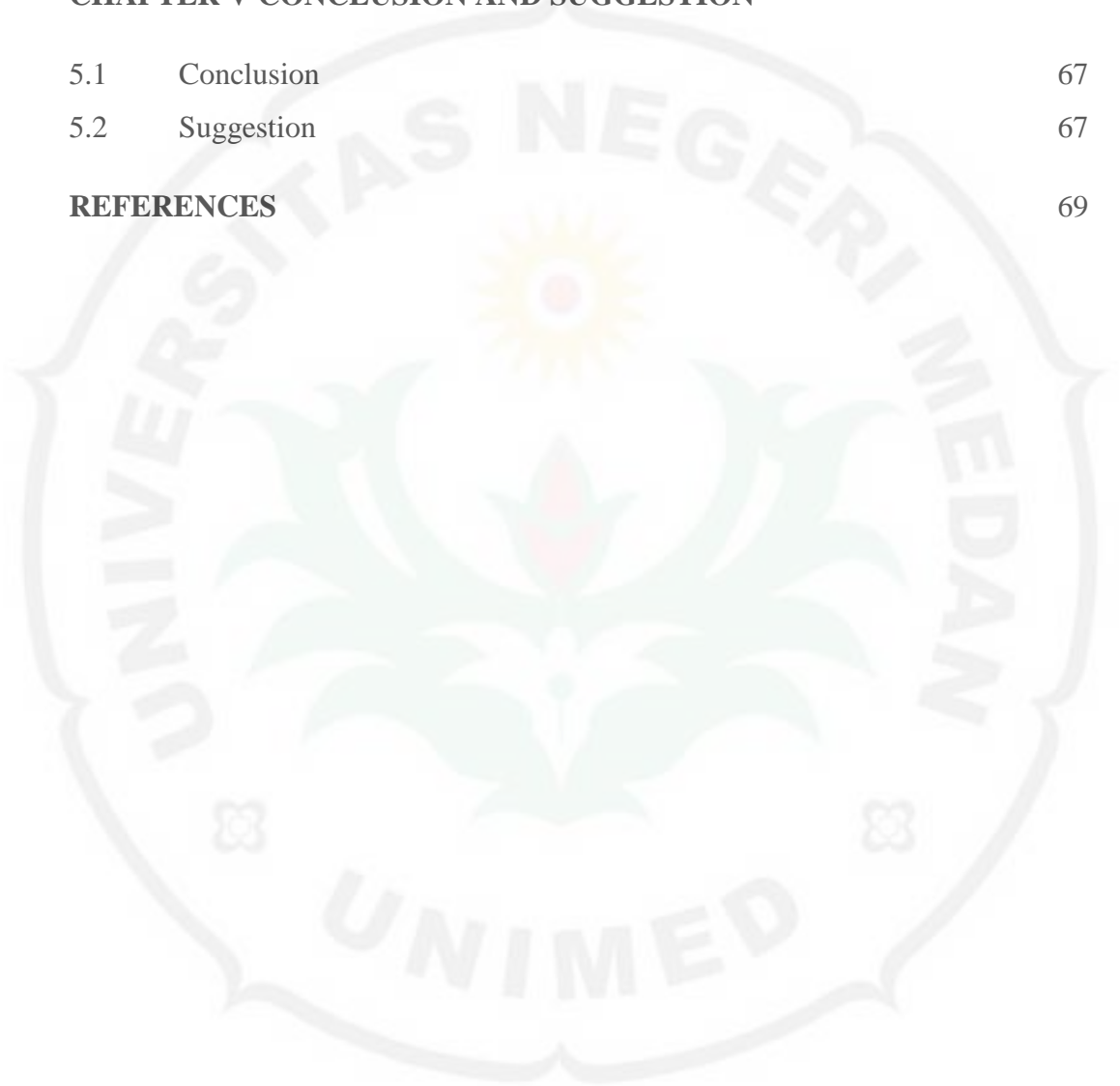
2.2.	Learning Material	18
2.2.1.	Electric Current	18
2.2.2.	Measuring the Electric Current and Voltage	18
2.2.3.	The Ohm's Law and Electric Resistance	20
2.2.4.	Series and Parallel Resistance Circuit	22
2.2.5.	Kirchhoff First Law	24
2.3.	Relevant Research	25
2.4.	Framework Conceptual	26
2.5.	Hypothesis	27
 CHAPTER III RESEARCH METHOD		
3.1.	Time and Place of Research	28
3.2.	Population and Sample Research	28
3.2.1.	Population	28
3.2.2.	Sample	28
3.3.	Variable of Research	28
3.3.1.	Independent Variable	28
3.3.2.	Dependent Variable	28
3.4.	Method and Design of Research	29
3.4.1.	Method of Research	29
3.4.2.	Design of Research	29
3.5.	Research Procedure	30
3.6.	Techniques of Data Collecting	32
3.6.1.	Pre-test	32
3.6.2.	Post-test	32
3.7.	Instrument of Research	32
3.7.1.	First Instrument Cognitive Domain	32
3.7.2.	Non-test Instrument	34
3.8.	Technique of Data Analysis	36
3.8.1.	Determine the Mean	36
3.8.2.	Determine the Standard Deviation	37

3.8.3.	Normality Test	37
3.8.4.	Homogeneity Test	38
3.8.5.	Hypothesis Test	39
3.9.	Data Analysis Techniques of Effectiveness	41
3.9.1.	Sensitivity Index of Instrument	41
3.9.2.	Learning Mastery	41
3.9.3.	Activities Observation Result	42
CHAPTER IV RESULT OF RESEARCH AND DISCUSSION		
4.1	Research Result	44
4.1.1.	Data of Pretest Score	44
4.1.2.	Data of Posttest Score	44
4.2	Data Analysis	47
4.2.1.	Normality Test	47
4.2.2.	Homogeneity Test	48
4.2.3.	Hypothesis Testing	48
4.2.4.	Affective Domain	49
4.2.5.	Psychomotor Domain	50
4.3.	Data Analysis of Effectiveness	51
4.3.1.	Sensitivity Index of Instrument	51
4.3.2.	Learning Mastery	52
4.3.3.	Activities Observation Result	53
4.4.	Discussion	56

CHAPTER V CONCLUSION AND SUGGESTION

5.1	Conclusion	67
5.2	Suggestion	67

REFERENCES	69
-------------------	-----------



THE
Character Building
UNIVERSITY