

TABLE OF CONTENT

MOTTO AND DEDICATION SHEET	i
APPROVAL SHEET	ii
ORIGINALITY STATEMENT SHEET	iii
PUBLICATION APPROVAL SHEET	iv
BIOGRAPHY	v
ABSTRACT	vi
PREFACE	vii
TABLE OF CONTENT	x
LIST OF FIGURES	xiii
LIST OF TABLES	xiv
LIST OF APPENDIXES	xv
CHAPTER I. INTRODUCTION	1
1.1. Background of the Study	1
1.2. Problem Identification	4
1.3. Scope of Study	4
1.4. Problem Limitation	5
1.5. Problem Formulation	5
1.6. Research Objectives	5
1.7. Research Benefits	6
CHAPTER II. LITERATURE REVIEW	7
2.1. Problem Based Learning Model	7
2.1.1. Definition of Problem Based Learning Model	7
2.1.2. Characteristics of Problem Based Learning Models	8
2.1.3. Problem Based Learning Model Steps	9
2.1.4. Advantages and Disadvantages of Problem Based Learning	9
2.2. Problem Solving	10
2.2.1. Definition of Problem Solving Ability	10
2.2.2. Problem Solving Ability Indicator	11
2.3. Scientific Attitude	12

2.3.1. Definition of Scientific Attitude	12
2.3.2. Scientific Attitude Indicator	13
2.4. Human Excretory System	13
2.4.1. Structure and Function of the Human Excretory System.....	14
2.4.2. Disorders of the Human Excretory System	19
2.5. Relevant Research	21
2.6. Thinking Framework and Hypotheses	22
2.6.1. Thinking Framework.....	22
2.6.2. Hypotheses.....	23
CHAPTER III. RESEARCH METHOD	25
3.1. Location and Time of Research	25
3.2. Population and Sample	25
3.3. Research Design and Variables.....	25
3.3.1. Research design	25
3.3.2. Research Variable	26
3.4. Operational Definition	26
3.5. Research Instruments.....	26
3.5.1. Problem Solving Ability Test Instrument.....	26
3.5.2. Scientific Attitude Non Test Instruments (Questionnaire).....	27
3.6. Instrument Testing	28
3.6.1. Validation of Students' Scientific Attitude Questionnaire	28
3.6.2. Validation of Student Problem Solving Ability Test	28
3.7. Research procedure.....	32
3.7.1. Research Preparation Stage	32
3.7.2. Research Implementation Stage.....	33
3.7.3. Final Stage of Research.....	40
3.8. Data Analysis Technique	42
3.8.1. Data Analysis Technique for Student Problem Solving Ability.....	42
3.8.2. Data Analysis Technique for Students Scientific Attitude.....	44
3.9. Research Schedule	45
CHAPTER IV. RESULT AND DISCUSSION	46

4.1. Research Result	46
4.1.1. Student Problem Solving Ability on Human Excretory System Material	46
4.1.2. Students' Scientific Attitude on Human Excretory System Material ..	51
4.2. Discussion	54
4.2.1. The Effect of Problem Based Learning Model on Problem Solving Ability Students' Scientific Attitude.....	54
4.2.2. The Effect of Problem Based Learning Model on Students' Scientific Attitude.....	57
4.2.3. Improvement of Students' Problem Solving Ability	61
4.2.4. Improvement of Students' Scientific Attitude	62
CHAPTER V.....	65
CONCLUSION AND SUGGESTION	65
5.1. Conclusion	65
5.2. Suggestion.....	65
BIBLIOGRAPHY	66
APPENDIXES.....	73

