

PREFACE

Praise and gratitude to Jesus Christ who has given His grace and gifts, so that the author can complete this thesis well. This thesis is prepared to fulfill some of the requirements needed to achieve a Bachelor of Education degree in the Natural Science Education Study Program, Faculty of Mathematics and Natural Sciences (FMIPA), Medan State University (UNIMED). The preparation of this thesis has gone through a long and tiring road and various stages in accordance with the standard procedures applicable at FMIPA UNIMED, starting from the stages of determining research topics, preparing and seminar proposals, conducting research, preparing theses, and thesis examinations.

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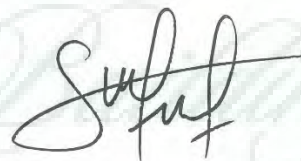
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The author realizes that this thesis is far from perfect due to the limited ability and knowledge possessed by the author. Therefore, for mistakes and shortcomings in writing this thesis, the author apologizes and is willing to accept constructive criticism. Finally, the author hopes that this thesis can provide benefits for anyone who reads it.

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