## ACKNOWLEDGEMENT

The author is grateful to God the Most Gracious and Merciful for His blessings so that the author can complete the writing of this thesis.

This thesis is entitled "Collaboration Skills and Concept Mastery of the Human Respiratory System Using the Group Investigation Learning Model in Students of Class XI MIA SMA Negeri 10 Medan the Academic Year 2021/2022." The writing aims to fulfill part of the requirements for obtaining the degree of Sarjana Pendidikan in Biology Education.

In writing this thesis, the writer cannot be separated from the support and guidance from various parties. Therefore, the author respectfully express her gratitude to Dr. Syamsul Gultom, S.K.M., M.Kes. as Chancellor of Universitas Negeri Medan, Prof. Dr. Fauziah Harahap, M.Si. as Dean of the Faculty of Mathematics and Natural Sciences, Universitas Negeri Medan, Dr. Hasrudin, M.Pd. as Head of the Department of Biology, Dr. Ely Djulia, M.Pd. as Coordinator of Bilingual Program, and in particular to Wasis Wuyung Wisnu Brata, M.Pd. as Thesis Supervisor who has always guided, supported, and motivated the author, as well as all lecturers of the Biology Education Study Program at Universitas Negeri Medan who have provided support to the author for the completion of this thesis.

The author also expresses her gratitude to Sri Murni, S.Pd. as the Head of SMA Negeri 10 Medan who has permitted the author to conduct research on the students under her leadership. The author's similar thanks go to Sukmawati, S.Pd. as a Biology teacher at SMA Negeri 10 Medan who has helped the author in carrying out this research sincerely and enthusiastically.

The author's sincere gratitude and appreciation go to her beloved parents, father Sanggup Barus and mother Marlina Sebayang who have nurtured and educated the author since childhood so that she becomes what she is today. Special thanks are also conveyed to the elders of Darmina Pratiwi Barus, Juniar Ivana Barus, and Prabawa Firmatus Barus who patiently always motivate the author so that the author can complete the writing of this scientific paper. Finally, the author would like to thank Ivana Odelia Nainggolan, a friend who has always accompanied and helped from the beginning to the end of the preparation of this thesis, and all friends from BESP 2018 for their togetherness and support who have helped the author in carrying out this research. The author also thanks all parties whose names cannot be listed here individually for their assistance in carrying out this research. May all those who have contributed to the blessing of God and can always rejoice in His mercy.

> Medan, 26 July 2022 Author,

Ima Gustifani Barus

