PREFACE

Praise and gratitude we pray to the presence of God Almighty, for all His grace and guidance so that the writer can complete the thesis entitled "Analysis of Creative Thinking Skills Using Creative Thinking Tests in Optical Materials." on time. This thesis was written to fulfill the requirements for a Bachelor of Education degree in the Bilingual Physics Education Study Program, Faculty of Mathematics and Natural Sciences, Medan State University.

In completing the study and writing of this thesis, the author received a lot of help, both teaching, guidance and direction from various parties, both directly and indirectly. For this reason, the author expresses his deepest appreciation and gratitude to:

- Mrs. Fauziyah Harahap, M.Sc., as the Dean of the Faculty of Mathematics and Natural Sciences, Medan State University and his staff.
- 2) Thesis Supervisor, Dr. Wawan Bunawan, M.Pd., M.Si. who has spared his time in between his busy schedule, providing criticism, suggestions and directions to the author in the process of writing this thesis to completion.
- Academic Supervisor, Prof. Dr. Makmur Sirait, M.Si., who has guided, cared for and supported the author while studying at Medan State University.
- 4) Thesis examiner, Dr. Ridwan Abdullah Sani, M.Si., Prof. Dr. Makmur Sirait, M.Si., Drs. Togi Tampubolon, M.Sc., Ph.D., who has provided many constructive suggestions for better thesis writing.
- 5) To all teachers and students at SMA Negeri 2 Medan.
- The author's parents and family who have provided support, encouragement and prayer for the writer while studying at university.
- Classmates of the 2019 Bilingual Physics Education Study Program, HEHE Family and other colleagues who have encouraged, shared love and knowledge with the writer while studying

- 8) All parties who have provided assistance, prayers and support that the author cannot mention one by one.
- 9) Last but not least, I wanna thank me for believing in me, I wanna thank me for doing all this hard work, I wanna thank me for having no days off, I wanna thank me for never quitting, I wanna thank me for always being a giver and tryna give more than I receive, I wanna thank me for tryna do more right than wrong and I wanna thank me for being me at all times. Let's continue this beautiful journey.

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.

Medan, 27 July 2023

Authors,

Jeremia A.S Napitupulu

IDN. 4192421021