

CHAPTER V

CONCLUSION AND SUGGESTION

5.1. Conclusion

The Physics test instrument based on Higher Order Thinking Skills (HOTS) in SMA on Translational Dynamics Material for the 2023/2024 academic year was developed in the form of multiple-choice questions with 20 questions before implementation. After implementation in small classes there are 17 questions is valid. And after implementation in large classes there are 15 questions is valid. The development of the test instrument has been successfully carried out. The conclusion of the analysis and discussion results is that the test instrument is suitable for use as a measuring tool for students higher order thinking skills and has the following characteristics:

1. Valid according to material, construction, and language experts is high with an average value of 0.85 and has obtained empirical evidence through construction validation with 85% valid items in the small class test and 88% valid items in the large class test.
2. Reliable with a value of 0.92 in the very high category ($r \geq 0.70$) for small class test results and 0.80 in the high category ($r \geq 0.70$) for small class test results.
3. The average discriminating power of test items is 0.56 with 95% of items in the good category in the small class test, and the average differentiating power is 0.42 with 56% of the good category items in the large class test.
4. The difficulty level of test items in the medium category is 95% in the small class test and 82% of medium test items in the large class test.
5. The effectiveness of the test item distractor is very good, at 70%, both on small class test results and 82% of the test item distractor on large class test results.

5.2. Suggestion

Research into the development of physics questions based on Higher Order Thinking Skills (HOTS) on translational dynamics material at the SMA has a quality category of test items that are suitable for use. Researchers suggest that:

1. Familiarize students to solve problems that measure higher order thinking skills.
2. Train and improve students science literacy skills by solving problems based on higher order thinking skills.
3. The time given to students in working on questions based on higher order thinking skills is not too short, but is adjusted according to the questions given.
4. The importance of mastering the material by students before working on questions based on higher order thinking skills.