CHAPTER V
CONCLUSIONS AND SUGGESTIONS

5.1 Conclusion

The conclusions that can be drawn in this development research refer to the research objectives and discussion are as follows:

1. An objective test of conceptual knowledge has been developed on the material of Rotational Dynamics in SMA/MA in accordance with the requirements of a good instrument. Judging from the qualitative analysis, the quality of the objective test is very good with an average value of 3,75. Based on the validity, at the limited field test stage there were 40 valid questions, 10 invalid questions.
2. The objective test that has been developed in the limited field test has a good reliability of 0,899. Meanwhile, in the large field test, the reliability is 0,894.
3. Based on discriminatory index, in the limited field test 39 questions (78%) had very good discriminating index, 2 questions (4%) were good, 2 questions (4%) were enough and 7 questions (14%) were bad. While in the large field test there are 23 questions (57.5%) that have excellent discriminating index, 13 questions (32,5%) are good, 3 questions (7,5%) are enough, and 1 question (2.5%) is bad.
4. Based on the level of difficulty, in the limited field test there were 11 questions (22%) in the easy category, 37 questions (74%) in the moderate category and 2 questions (4%) in the difficult category. While in the large field test there are 3 questions (7,5%) in the easy category, 37 questions (92,5%) in the moderate category and no questions in the difficult category.
5. Based on the effectiveness of the distractors, in the limited field test 18 questions (36%) were included in the very good category, 19 questions (38%) in the good category, 6 questions (12%) in the enough category and

7 questions (14%) in the bad category. In the large field test there are 12 questions (30%) included in the very good category, 23 questions (57.5%) in the good category, 5 questions (12.5%) in the enough category.

5.2 Suggestion

Based on the results of research on the development of an objective test of Conceptual Knowledge on Rotational Dynamics material in High School, the suggestions that can be submitted are as follows:

1. The test instrument that has been tested and analyzed can be used as a question bank.
2. With this research test, it shows that to make a good test instrument, it is necessary to analyze good items qualitatively so that it meets the criteria of a good test instrument, in order to foster motivation of actors in the field of education to make good Physics test instruments on other materials.
3. Other researchers who wish to conduct similar research wherever possible take samples from schools of varying quality, so that with the number of samples with different conceptual knowledge will make the data more accurate, whether the test instrument developed has been able to increase students' conceptual knowledge.
4. To reduce the possibility of students answering guesswork, it is better to use a penalty scoring technique that takes into account the number of wrong answers as a fine deducting value. With this scoring, students are more careful in answering test questions so that they can increase the reliability of the test.

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