CHAPTER V
CONCLUSIONS AND SUGGESTIONS

5.1. Conclusions

Based on data analysis and discussion of research results, obtained general conclusion that application of Guided Discovery Learning model in student's learning achievement at characteristics of waves topic have sufficient criteria to improve students' learning achievements in cognitive, effective and psychomotor domains. Based on research questions that presented earlier, we can conclude some of the following:

1. Result of students' learning outcomes of using Guided Discovery Learning model in Characteristics of waves topic at the 2nd grade students in High School 1 Medan in experiment class have average score 42.27 in pretest and 75.94 in posttest, while control class have average score 38.70 in pretest and 75.02 posttest.

2. Depend on Testing hypothesis for pretest data using t test two side. From calculation result got that $t_{calculate} < t_{table}$ there is $1.23 < 1.665$. Based on this result, result we can conclude that experiment and control class have same initial ability.

3. There is significant difference of students' learning outcomes using Guided Discovery learning model and direct instructional model in Characteristics of wave topic at class XI SMA N 1 Medan.

5.2. Suggestions

This research is still far from perfect research. Based on the research results that have conducted, researcher gives the following suggestions:

1. For the next researcher in order to give more attention and guidance to students who are less active.

2. For the next researcher who wants research about Guided Discovery Learning to use the time as effectively as possible.

3. For the next researcher who wants research Guided Discovery Learning so that at prepare one observer for each group, to get more accurate data.