BAB V

CONCLUSION AND SUGGESTION

5.1. Conclusion

Based on the result of research, it can be concluded as follows:

1. Students in IX Grade SMPN 11 Medan are have difficulties in all level of cognitive aspects which all be classified from moderate category to the very high category. The highest percentage of learning difficulties is present on C6 (Creation) level and followed by C5 (Evaluation); C4 (Analyze); C2 (Understanding); C3 (Application); C1 (knowledge)

2. Students in IX Grade SMPN 11 Medan have difficulties in all level of indicator aspect. The percentage of learning difficulties on first indicator (Describe the genetic material that responsible for inheritance traits) is classified into high difficulty, while the second indicator (Distinguishing recessive, dominant, and intermediet), third indicator (Determining gametes from its mother genotype), fourth indicator (Determining the ratio of monohybrid and dyhibrid cross) are classified into very high category.

3. The factors that categorized into influential in causing learning difficulties of IX Grade Students in SMPN 11 Medan from the higher to the lower are, school facilities, family, teachers, health, talent, and intelligence. While the factors that categorized into quite influential from the higher to the lower are motivation, media, environment, and interest

5.2. Suggestion

It can be proposed some recommendation as follows :

1. For teacher, need to improve their quality of teaching and learning process in class by applying high order thinking learning and giving questions about high order thinking. Through high order thinking students will be able to clearly distinguish idea or ideas, be able to solve problems, be able to construct explanations, be able to hypothesize and understand complex things to be clearer.

2. For further researchers, this research can be used as input for conducting similar research both in developing instruments and conducting analysis of students' difficulties based on cognitive aspects and also to determine students' abilities in LOTS and HOTS, as well as developing more specific factors and analyzing factors that influence these abilities. In addition, to be more valid in measuring the ability of students, content validation and constructing should be done to several validators.