CHAPTER I
INTRODUCTION

1.1 Background of the Study

Since the outbreak of the pandemic due to the Corona virus in Indonesia, the government has taken many ways to prevent its spread. One of them is through a circular letter from the Ministry of Education and Culture (Kemendikbud) of the Directorate of Higher Education No.1 of 2020 concerning the prevention of the spread of Corona Virus Disease (Covid-19). Through this circular, the Ministry of Education and Culture gave instructions to conduct distance learning and suggested learning from homes. In an effort to prevent the spread of Covid-19, WHO recommends temporarily stopping activities that have the potential to cause crowds. (Firman & Sari, 2020). This condition requires that students and teachers cannot meet directly to maintain social distancing and physical distancing so, that learning must be done through full online learning.

The condition of students and teachers who cannot meet in person to maintain social distancing and physical distancing is what makes learning to be done through online learning. In online learning, we recognize the terms synchronous learning and asynchronous learning. According to Chaeruman (2017), in synchronous learning, students and teachers are in the same place at the same time. This is similar to face-to-face classes. One example of synchronous learning is when students and teachers participate in class through web conferencing applications. It creates virtual classrooms that allow students to ask questions and teachers to answer instantly. Overall, synchronous learning allows students and teachers to participate and learn directly and engage in hands-on discussions. While asynchronous learning is an independent learning approach with asynchronous interaction to encourage learning. E-mail, online discussions, Wikipedia, and blogs are resources that support asynchronous learning.

In carrying out online learning, SMA Negeri 10 Medan uses several platforms such as WhatsApp, YouTube, Meet, Zoom and also Google classroom. The intensity of the use of Meet and Zoom has decreased at the end of the odd smester, this is because the use of Meet and Zoom is considered ineffective to be used as a medium for learning and communication between students and teachers. Therefore, SMA Negeri 10 Medan or more specifically class 10 MIA only conducts online learning with the asynchronous type. Based on interviews conducted with Biology subject teachers, it is known that 50% of the online learning process is carried out through WhatsApp. WhatsApp is actually a supporting medium for communication in online learning like during the current pandemic. However, many schools such as SMA Negeri 10 Medan use this as a learning medium. In fact, WhatsApp cannot be used as a Learning System because this application is not sufficient and has features that can be used for learning and teaching activities.

In the opinion of a class X student of SMA Negeri 10 Medan, studying in a pandemic condition like this is very difficult. He has several obstacles in participating in learning, namely the number of applications they use. This was also confirmed by the Biology subject teacher in class X and supported by data from the final exam results for odd semester students which showed that 25% of students' scores were below the Minimum Completeness Criteria, or it can be interpreted if in one class there are 36 students, then as many as 9 students are below the Minimum Completeness Criteria.

Biology is a complex subject because it discusses all living things. In the implementation of biology learning, students must have the types of skills in observing, measuring, using tools, conducting experiments, and communicating the results of these experiments both orally and in writing (Suardana, 2007). Many students are unable to develop their understanding of the concept of biology lessons because the acquisition of knowledge and the process is not well integrated so that students have difficulty learning in lessons, especially biology. Animalia Kingdom material is the main material used in this research. Animalia Kingdom material has a wide scope. Therefore, it takes a deep understanding by students in order to master this material. If this material is delivered during an

offline class, the teacher has difficulty introducing some types of animals from the invertebrate class that students never find in their daily lives. So that when online learning like this, the Animalia Kingdom material is easier for students to understand because they can see pictures of the animal via the internet or the material provided by the teacher. Therefore, students should be able to have good learning results in this material. However, using the right application can also affect student learning results.

Looking at the current situation, it shows that the use of learning media and teacher skills in conditioning online classes is very important to improve student learning results. Researchers chose Google Classroom and WhatsApp Group as learning media during the study because Google Classroom is an application in the form of a learning management system provided by Google and can be connected using email so that it is easy to access both by teachers and students. Google Classroom is a learning management system for schools with the aim of facilitating the creation, distribution, and assessment of paperless assignments. Google Classroom acts as a medium or tool that teachers and students can use to create online classes or virtual classes, where teachers can give announcements and assignments to students that are received directly by students..

WhatsApp is an application that is currently widely used as a means of communication, including in the world of education, in this case is communication between teachers and students. In an effort to support the continuity of the education and learning process during the COVID-19 pandemic, WhatsApp Groups can be used as a learning medium, so that learning can take place without being limited by space and time. This means that learning is still carried out not only face to face in the classroom, but learning can also be done outside of class hours. By using WhatsApp Group, teachers are expected not only to carry out learning based on the curriculum, but also to provide encouragement to generate, stimulate and improve student learning results, so that learning objectives can be achieved properly.

Then, therefore, it is necessary to research whether online learning using the Google Classroom application is more effective than online learning using the WhatsApp Group application on animal world material in class X. Seeing the

problems that arise, the researchers will conduct research with the title "A Comparison of the Students' Learning Results between Using Google Classroom and WhatsApp Group in Animal Kingdom Materials Grade X MIA SMA Negeri 10 Medan Academic Year 2020/2021."

1.2 Problem Identification

Based on the background above, the problems in this study are:

1. Students have difficulty studying Animal kingdom material.
2. 25% of students' learning results were below the Minimum Completeness Criteria (KKM).
3. 50% of the online learning process was only done using WhatsApp group.
4. Students have several obstacles in participating in learning, namely the number of applications they use.

1.3 Scope of Study

The scope of this research is to find out the comparison of students' learning results on animal kingdom materials between using Google Classroom and WhatsApp Group for class X MIA SMA Negeri 10 Medan.

1.4 Scope of Problems

Based on the scope of the problem, the problem in this study is limited to:

1. Students' learning results with using Google Classroom on Animal Kingdom material in class X MIA SMA Negeri 10 Medan in the academic year 2020/2021.
2. Students' learning results with using WhatsApp Group on Animal Kingdom material in class X MIA SMA Negeri 10 Medan in the academic year 2020/2021.
3. Comparison of the students' learning results between using Google Classroom and WhatsApp Group on Animal Kingdom materials in class X MIA SMA Negeri 10 Medan in the academic year 2020/2021.

1.5 Research Questions

Based on scope of problems, the research of questions in this study are:

1. How is the students' learning results with using Google Classroom on Animal Kingdom material in class X MIA SMA Negeri 10 Medan in the academic year 2020/2021?
2. How is the students' learning results with using WhatsApp Group on Animal Kingdom material in class X MIA SMA Negeri 10 Medan in the academic year 2020/2021?
3. Is there any difference of the students' learning results between using Google Classroom and WhatsApp Group on Animal Kingdom materials in class X MIA SMA Negeri 10 Medan in the academic year 2020/2021?

1.6 Study Objectives

The objectives of this study are as follows :

1. Knowing the students' learning results with using Google Classroom on Animal Kingdom material in class X MIA SMA Negeri 10 Medan in the academic year 2020/2021.
2. Knowing the students' learning results with using WhatsApp Group on Animal Kingdom material in class X MIA SMA Negeri 10 Medan in the academic year 2020/2021.
3. Knowing the difference of the students' learning results between using Google Classroom and WhatsApp Group on Animal Kingdom materials in class X MIA SMA Negeri 10 Medan in the academic year 2020/2021.

1.7 Research Benefits

After doing the research, it is hoped that this research will have the following benefits:

1) Improve the quality of learning about Animal Kingdom in particular and Biology in general.
2) Provide information and experiences for reseachers about real classroom problem during online learning.

3) Encourage teachers to look for alternative ways in overcoming condition of study in Biology course, especially on Animal Kingdom materials.

1.8 Operational Definition

1. The learning results in this study are learning results in the cognitive aspect in the animal kingdom material. In this case, learning results will be calculated after learning using Google Classroom and WhatsApp Group during online learning.
2. Learning using Google Classroom is learning by utilizing Google Classroom which is integrated with power point and material explanation and conducted by discussion with the experimental class 1, namely X MIA 1.
3. Learning using WhatsApp Group is learning that uses one of the features in the WhatsApp application as a learning medium that is integrated with power point which is inserted with an audio explanation then the format is converted into video, conducted by discussion with the experimental class 2, namely X MIA 2.

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