

CHAPTER 3

METHOD OF DATA COLLECTION AND ANALYSIS

Method of research is divided into three categories, Qualitative, Quantitative and Mixed methods. The research was conducted within quantitative research as a testing was used to collect data. Descriptive Descriptive statistics were used ton summarize or describe characteristics of a data set.

Quantitative research is a means for testing objective theories by examining the relationship among variables (Creswell, 2009). Quantitative research is also related to collect, to count and to produce the data in the form of a number.

3.1 Data Collection

3.1.1. Participants

Participants are essential for research. Participants were selected who can best inform the research questions and enhance understanding of the phenomenon under study. The participants of this study were 45 Faculty of Language and Arts Students.

3.1.2. Instrument

One of the most essential components of the research design was the research instrument to obtain the data. In quantitative research, to obtain data there were a questionnaire, experiment, survey, testing, etc Osang (2013). This study used a test to find out the data.

3.1.2 Procedure

To conduct this study, some steps were implemented:

1. Testing

The test was conducted by the teacher in TOEFL Preparation II as the students' final test. In order to find out the students' difficulties in the structure section, the data in the form of corrected answer sheets were analysed.

2. Analysing the data

To analyse the data, the writer used SPSS 24 to get the frequencies of the data with these steps :

- (1) collection of a students' answer sheets;
- (2) identification of students' errors;
- (3) description of students' errors;
- (4) explanation of students' errors

3.3 Method of Data Analysis

SPSS 24 was used to see students' errors in answering structure TOEFL. Descriptive Statistics was applied in this study to analyse the data. Statistic frequencies are used to find the incorrect and correct each question. Each item on TOEFL test has multiple choice, A, B, C and D. Since the option A, B, C and D did not have mean, the code to put the value of those options were (1), (2), (3) and (4) for SPSS 24. This coding also helped the writer to put the answer key on the coding values and to find the result frequencies of each item.