

ABSTRACT

Lumbantoruan, Maria. 2151121030. Item Analysis of English Summative Test Based On Item Response Theory (IRT). Thesis. English and Literature Department, Faculty of Languages and Arts, State University of Medan. 2022.

This study aims at finding out the indices of English summative test as well as describing the test quality based on the 3-PLM of IRT (Item Response Theory). A descriptive-quantitative design is applied by using Rstudio program to analyze the data. The findings show that there are three indices in evaluating English test based on the 3-PLM of IRT, they were item difficulty (b -parameter), item discrimination (a -parameter) and pseudo guessing (c -parameter). As much as 95 % (38 items) are in the good category of difficulty index and 5% (2 items) are in the poor category/very easy items. Then, as much as 30 % (12 items) are in the good category and 70 % (28 items) in the poor category of the discrimination power. While referring to the guessing parameter, as much as 90 % (36 items) are in the good category and 10 % (4 items) are in the poor category.

Keywords: Item Analysis, Summative Test, IRT