

Analysis of Past West Africa Examination Council / Senior Secondary Certificate Examination Physics Essay Test Items Parameters: Application of IRT Polytomous Model

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Abstract

The study aimed at determining the quality of the WAEC SSCE Physics essay test items for 2015, 2016 and 2017, if they are acceptable when the item response theory (IRT) Polytomous model is applied. A descriptive survey research design was adopted and sampled 1000 senior secondary school students from the 27,615 students who registered for the 2018 senior school certificate physics examination in Delta State, Nigeria. Findings revealed that most of the May/June WAEC SSCE Physics essay test items for year 2015, 2016 and 2017 are not acceptable when the item response theory (IRT) Polytomous model is applied among as presented in this study. It was therefore recommended that test developers should always ensure proper test items validation before use.

Keywords: Parameters, IRT, Polytomous Model, Test Items, WAEC, Physics, Essay Test.

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1. Introduction

West African Examination Council (WAEC) saddled with the responsibility of conducting examination related issues, in particular the senior secondary school examination (SSCE) in her curriculum/syllabus identified physics as one of the core science subjects which is the study of matter, energy and their interactions. Technological development encompasses the application of the principles of physics and it describes how the natural world works through applied Mathematical formulas. The Senior School Certificate Examination papers are made up of two parts, objectives and essay test items. While the objective test items constitute twenty-five percent (25%), the essay test items constitute seventy-five percent (75%) of the total marks earned by the examinees. There is an outcry in the West African Examination Council report on poor performance especially in the science related subjects. In view of this, researchers have been making effort to proffer solution to the problem. Some of the studies focused on the teachers as a factor, others are on students study habit, learning environment and so on. Few or no studies have been carried out on the nature and quality of the test items administered on the students. Where such studies are carried out they dwelled on the objective test items which constitute 25% of the examination. Two major theories have been developed and available for psychometricians in determining the quality and characteristics (items parameters) of test items that are administered to examinees. They are classical test theory (CTT) and item response theory (IRT). While CTT has dominated and remained a leading framework for analyzing and developing standardized test items, it lacks the ability for analyzing essay test items. To this end, a modern theory, known as the Item Response Theory (IRT) was developed to correct the limitations of the CTT. Item Response Theory has two categories of model – dichotomous and polytomous model. While the dichotomous models deals with objective test items, the polytomous model is used for essay test items. The Polytomous model was adopted for this study as the study is aimed at dealing with essay test items.

Item Response Theory (IRT) has become a contemporary issue in psychological and educational assessment in recent times. IRT as described "New psychometric term" is popular in psychological testing, test manuals and journals and very soon psychologists who do not know about item response theory will be a minority and very much at a disadvantage in their research (Hambleton, 2004, Navas, 2001) reported that in Spain today there are several books as general testing practices in relation to IRT. Han & Hambleton (2007) stated that item response theory is a popular and valuable framework for modelling educational and psychological tests data, due to its attractive properties such as the invariance of item and examinee parameter values being reported on a common scale. The theory is built on three basic assumptions, first is that the items are measuring a single latent variable ranging from - to + i.e. unidimensional trait. This assumption refers to the fact that is assumed to be a unidimensional random variable and not a multidimensional random vector. The trait is measurable on a scale i.e. the mere existence of a test assumes this, typically set to a standard scale with a mean of 0.0 and a standard deviation of 1.0. The second assumption is "local independence" which means that items are not related except for the fact that they measure the same trait which is equivalent to the assumption of unidimensionality. Thirdly, that the item response function gives the probability that a person with a given ability level will answer correctly

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