ITEM PARAMETER ESTIMATES OF UNIFIED TERTIARY MATRICULATION MATHEMATICS EXAMINATION USING ITEM RESPONSE THEORY 3 – PARAMETER LOGISTIC MODEL

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AUTHORS' CONTRIBUTIONS

This work was carried out in collaboration among all authors. All authors read and approved the final manuscript.

Original Research Article

ABSTRACT

Item response theory has become a unique methodological framework for reviewing response data from assessments in education and other fields of study. This study attempted to assess the Item parameter estimates of Nigeria's unified tertiary matriculation mathematics assessment instrument using item response theory 3 – Parameter logistic model and determined the conformity level of the items of the instrument to the revised Bloom's taxonomy of educational objectives. The descriptive validation design was applied in the study. The population of the study comprised the 3, 320 SS 3 students registered for 2020 Unified Tertiary Matriculation Examination (UTME) who opted for mathematics in the public secondary schools in Abia State out of which 40 students were selected. Simple random sampling and purposive sampling techniques were adopted in selection of the samples using multistage procedure. Mathematics Assessment instrument used in the 2017, 2018 and 2019 UTM examinations were the instruments for data collection. This was made up of 120 (40 items for each year) multiple choice items, each having a single stem with four options including one correct answer and three distractors. *b*, *a* and *c*-parameters of the individual items of the instruments were established. The findings of the study revealed that a very high percentage (95% in 2017, 95% in 2018 and 85% in 2019) of the items were of moderate difficulty and discriminated adequately among high and low performing students. More so, the pseudo guessing parameter estimate indicated that there were low level of guessing since a high percentage ((90% in 2017, 92.5% in 2018 and 90% in 2019)%) of the items survived. The researcher recommended among others that examination bodies in Nigeria should concretize the quality of their test items by conducting item analysis using IRT model.

Keywords: Item parameter; tertiary matriculation; mathematics examination; 3-parameter logistic model.

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   Current Problems of Applied Mathematics and Computer Systems Anatoly Alikhanov,Andrei Tchernykh,Mikhail Babenko,Irina Samoylenko,2024-09-01 This book is based on the best papers accepted for presentation during the International Conference on Current Problems of Applied Mathematics and Computer Systems APAMCS 2023 The book includes research materials on mathematical problems and solutions in the field of scientific computing artificial intelligence data analysis and modular computing The scope of numerical methods in scientific computing presents original research including mathematical models and software implementations related to the following topics numerical methods in scientific computing solving optimization problems methods for approximating functions etc The studies in data analysis and modular computing include contributions in the field of deep learning neural networks mathematical statistics machine learning methods residue number system and artificial intelligence In addition some articles focus on mathematical modeling of nonlinear physical phenomena Finally the book gives insights into the fundamental problems in mathematics education The book intends for readership specializing in the field of scientific computing parallel computing computer technology machine learning information security and mathematical education   **Annual Catalog - United States Air Force Academy** United States Air Force Academy,1979   **Annual Catalogue** United States Air Force Academy,1982   **Mathematical Physics** R. Carroll,1988-06-01 An introduction to the important areas of mathematical physics this volume starts with basic ideas and proceeds sometimes rapidly to a more sophisticated level often to the context of current research All of the necessary functional analysis and differential geometry is included along with basic calculus of variations and partial differential equations linear and nonlinear An introduction to classical and quantum mechanics is given with topics in Feynman integrals gauge fields geometric quantization attractors for PDE Ginzburg Landau Equations in superconductivity Navier Stokes equations soliton theory inverse problems and ill posed problems scattering theory convex analysis variational inequalities nonlinear semigroups etc Contents 1 Classical Ideas and Problems Introduction Some Preliminary Variational Ideas Various Differential Equations and Their Origins Linear Second Order PDE Further Topics in the Calculus of Variations Spectral Theory for Ordinary Differential Operators Transmutation and Inverse Problems Introduction to Classical Mechanics Introduction to Quantum Mechanics Weak Problems in PDE Some Nonlinear PDE Ill Posed Problems and Regularization 2 Scattering Theory and Solitons Introduction Scattering Theory I Operator Theory Scattering Theory II 3 D Scattering Theory III A Medley of Themes Scattering Theory IV Spectral Methods in 3 D Systems and Half Line Problems Relations between Potentials and Spectral Data Introduction to Soliton Theory Solitons via AKNS Systems Soliton Theory Hamiltonian Structure Some Topics in Integrable Systems 3 Some Nonlinear Analysis Some Geometric Formalism Introduction Nonlinear Analysis Monotone Operators Topological Methods Convex Analysis Nonlinear Semigroups and Monotone Sets Variational Inequalities Quantum Field Theory Gauge Fields Physics Gauge Fields Mathematics and Geometric Quantization Appendices Introduction

to Linear Functional Analysis Selected Topics in Functional Analysis Introduction to Differential Geometry References Index

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