

Correlates of Cost Effectiveness Analysis of Rating Scale and Psycho-Productive Multiple Choice Test for Assessing Students' Performance in Rice Production in Secondary Schools in Ebonyi State, Nigeria

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Abstract : This study was carried out to determine the correlates of cost effectiveness analysis of rating scale and psycho-productive multiple choice test for assessing students' performance in rice production. Four research questions were developed and answered, while one hypothesis was formulated and tested. Survey and correlation designs were adopted. The population of the study was 20,783 made up of 20,511 senior secondary (SSII) students and 272 teachers of agricultural science from 221 public secondary schools. Two schools with one intact class of 30 students each was purposely selected as sample based on certain criteria. Four sets of instruments were used for data collection. One of the instruments-the rating scale, was subjected to face and content validation while the other three were subjected to face validation only. Cronbach alpha technique was utilized to determine the internal consistency of the rating scale items which yielded a coefficient of 0.82 while the Kuder-Richardson (K-R 20) formula was involved in determining the stability of the psycho-productive multiple choice test items which yielded a coefficient of 0.80. Method of data collection involved a step-by-step approach in collecting data. Data collected were analyzed using percentage, weighted mean and sign test to answer the research questions while the hypothesis was tested using Spearman rank-order of correlation and t-test statistic. Findings of the study revealed among others, that psycho-productive multiple choice test is more effective than rating scale when the former is applied on the two groups of students. It was recommended among others, that the external examination bodies should integrate the use of psycho-productive multiple choice test into their examination policy and direct secondary schools to comply with it.

Keywords : correlates, cost-effectiveness, psycho-productive multiple-choice scale, rating scale

Conference Title : ICTVET 2020 : International Conference on Technical Vocational Education and Training

Conference Location : Toronto, Canada

Conference Dates : July 16-17, 2020