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Effectiveness of Mock Examination in Predicting Academic Performance of Senior Secondary School Students in Education District II of Lagos State

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ADSTRACT

adopted to select 152 participants for the study The instrument used for the data collection session in Education District Two of Lagos state. The Multi-stage sampling techniques were epackaged and improved upon for better performance in these external examinations. It can, was recommended among others that State Ministry of Education should ensure that the performances especially for Mathematics and English Language. Based on these findings, it Biology; also, there is a significant relationship between Mock Examination and WASSCE Examinations in Mathematics and Biology are good predictors of SSCE Mathematics and guide the study at 0.05 level of significance. The empirical findings showed that; Mock be obtained in STANINE form. was students' grade chart (SGC). It was designed in such a way that the students' grades could School III students who sat for SSCE and Mock examination in the 2016/2017 academic study was an ex-post- facto research design. The population comprised all Senior Secondary Academic Performance of Senior Secondary School Students in Education District II. The this study was the Evaluation of the Effectiveness of the Mock Examination in Predicting achievement of students in the SSCE examinations is still worrisome. Thus, the purpose of for our secondary school students', however, despite the use of Mock Examinations, the Mock Examinations serve as a parameter for predicting performance in SSCE examinations xternal examinations than the terminal ss2 promotion examination. herefore, be concluded that the Mock Exam was a good method of preparing students for election of students for SSCE is maintained while the Mock Examination is sustained, Two research hypotheses were formulated and tested to

le)words: Effectiveness, mock examinations, predictor, academic performance

ntroduction and Background

achieve highly in these examinations. Different attempts have been made by school lese external examinations to students; adequate preparation must be made to help students lmission to study in the University or similar tertiary institutions Due to the importance of ust have at least five credit passes including English Language and Mathematics to gain ouncil (NECO), National Business and Technical Board (NABTEB), and so on. Students edies include the West African Examinations Council (WAEC), National Examinations andardized examinations in Nigeria for certification of senior secondary schools. Such lministrators to prepare students for these examinations are examination bodies that are charged with the responsibility of conducting

standardization ensures the parameters like the difficulty index, discriminating index, and the distractor index. developed in a standard form, by experts, which have known psychometric properties. The feacher made achievement tests unparalleled with the external examinations that are standardized to ascertain the psychometric properties of the questions. This makes the district. The items in these examinations conducted at school and district levels are not the same external examinations. Standards differ from school to school and from district to different types of tests are conducted by teachers in various schools and different Education Districts. There is no uniformity of examinations taken by the students to prepare them for performance of students in external examinations. Students are not being judged equally as subjected to teachers' manipulations which make them inadequate to be used to predict the both at school, and sectorial levels have been criticized by many scholars as being biased and prepare students for these external examinations. However, Mock Examinations conducted Mock Examination has been the popular form of an examination administered to help

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the third term. It served two main purposes of promotion examination to Senior Secondary III and also prepared the students for external examinations. government's interest in looking for a reliable ground of preparation for students to perform better in the external examinations. Mock Examination was taken in Senior Secondary II in 2008, introduced an examination called unified examination which was borne out of the To better prepare the students for these external examinations, the Lagos state government in

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established that The government's policy document that established the Unified examination in Lagos state

- N government-approved public secondary schools in the State The examination will be for students transiting from one class to another in all
- w The examination should be called the Unified Examination
- pass in English and Mathematics will be the basis for promotion to the next class. All subjects registered for in WAEC and NECO in Lagos State schools are to be tested. These include, among others; English language, Mathematics, and Biology, however,
- within the state The items will be generated by subjects' specialists teaching the students in schools
- S specialists per subject will be engaged for item generation and moderation There will be item writing and moderation exercises involving experts. Four subject
- 6 Conduct of the Examination; all schools will be centers.
- Vice principals (academics) will supervise the examinations in schools other than
- The principals will provide resources for the test of practicals
- Principals are to provide resources for the packaging of worked scripts.
- (AIE)/custodian after the examination Principals are to deliver answer scripts to the Area Inspectorate of Education
- 7 Marking exercises;
- Ministry of Education (MOE). Zonal marking to be coordinated by zonal AIEs and monitored by officials of the These a
- Zonal AIEs will appoint markers

Public ((Adeye and con the gov Recent Pnglis) the firs Lagos! examir. prepar There central are stil WAEC

- Zonal AIEs will receive scripts from principals or AIE 'custodians.
- Processing of results. Zonal AIEs will brief and coordinate team leaders and assistant examiners.
- Collation of results by the Ministry of Education
- Computerization to be handled by the Ministry of Education
- Education Release of results and promotion parameter to be determined by the Ministry of
- At least passes in five subjects, including English Language and Mathematics
- Candidates who fail will repeat the SSIIIII class
- Candidates who repeat once may be promoted if he/she should fail again

ive credit level including English Language and Mathematics. The objectives of Mock mination include; government motivates the students by paying the WAEC fee of any student who passes

To organize qualifying examination into Senior Secondary III (SS III) from Senior

To standardize the quality of students that will be presented for WAEC

To create a platform to present candidates, who are ready for government sponsorship in terms of payment of WAEC registration fees.

who are not prepared for the examination (Lagos State Ministry of Education, 2008). To eurb the menace of examination malpractice by not registering external candidates

government to equip the students for the public (external) examinations. Its with the school principals and ending in the school cupboard. All these are done by d be accessed on the internet which is different from the usual practice of keeping the ently, the result of the Mock Examination was published and given out to students and irst term of SS III. The examination papers are equally marked centrally by the teachers. rally and in the same examination conditions as the external examinations. It is taken in os State Government, in the year 2012, repackaged Mock Examination to be conducted ninations and strengthen the preparedness for these public external examinations. pare students still unsatisfactory. The Government/Ministry of Education saw the need to further been so. Despite all the government's efforts in funding this examination and paying the n expected to reflect in the students' performances in the external examinations, but it has lish Language and Mathematics, the performances of students in external examinations EC/SSCE registration fees of students who passed five subjects at credit level including re should have been better performances in the Mock Examination which would have in curbing this menace of mass failure in the certifying/public

lucting these examinations did not themselves prepare students for the examinations. yegbe, 2004). The examinations are external in the sense that the examining boards se are better developed than the ones prepared by the teachers in the school setting conducted by examination bodies using tests that have utilized psychometric properties lic examinations are viewed as external school examinations open to the general public

pupils, using various tools. The test is one of such instruments for evaluation (Obinine, determining the quality of the curriculum, the facilities available and the performance of be completely invalidated and inconclusive. Evaluation concerns value judgments, if no provision is made for the evaluation of the students' progress, the teaching effort may the teacher is, how intelligent the students are and how adequate the audio-visual equipment Evaluation is seen as a qualitative description of students' behavior. No matter how efficient know the students' standing in these examinations, therefore, students must be evaluated conditions and are based on norms that were regarded as standards (Adeyemi, 2008). To They are the examinations that are designed and organized under specific terms and

the future, such a test that could be used to predict students' achievement must be valid. could be used as a measuring instrument to predict the academic performance of students in administered in these examinations to know the level of achievement of students. The test consideration in developing and evaluating tests (Hogan & Angello, 2004). levels of reliability, validity, difficulty, and discrimination. The validity, according to the the practical relevance of the tests and their administration is largely dependent on their does not know and what he partially knows so as to know which area to intensify efforts on instrument designed in a learning environment to find out what a learner knows, what he aspects of the individual's behaviour. Makinde & Akanni (2015) defined a test as a powerful individual for the purpose of measuring or obtaining quantitative information about several A test can be defined as a set of standardized questions or inventories administered to an for Educational and Psychological Testing, is the most The tests are

obtained about the same time with the test score that is when the two scores are gotten criterion variable. Criterion-related validity is sub-divided into two via; concurrent validity related to this study, Mock Examinations are the predictor variables while SSCE is the another situation that the instrument is supposed to predict is called the criterion variable. As instrument can estimate or predict performance in other situations. The measures from the 2006). Validity is of different types. One of the types of validity is criterion-related validity. concurrently and predictive instrument are referred to as the predictor variable (predictor), whereas the performance in This type of validity is concerned with the degree to which the performance on The validity is the truthfulness at which a test measures what it purports to measure (Okoli validity. Concurrent validity has to do with when the criterion score is

predict the performance of students in SSCE (criterion measure). Gall, Gall, & Borg (2007) accurately a person's current test score can be used to estimate what the criterion score would be at a later time. A mock examination is the predictor variable that will be used to the present (Garson, 2008). Emaikwu (2011) stated that predictive validity refers to how later date on a different assessment of his/her abilities using the performance measures of future performance. Predictive validity is intended to predict how a person will perform at a Predictive validity is the extent to which a person's present scores can be used to estimate

researches are concerned with the prediction of success in various activities. are confirmed by the later behavior of the subjects. They maintained that many educational were of the view that predictive validity is the degree to which the predictions made by tests

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performance of Senior Secondary three Students in Education Districts II of Lagos-State inception in Lagos State in 2008 and when it was repackaged in 2012 on the academic study on the effectiveness of the predictive validity of the Mock Examination since its specialization of either arts, commercial vocational or sciences. Hence the need for this expected to register Mathematics, English & at least one Science subject in addition to their because they are the core subjects compulsory for all candidates, Mathematics, English & Biology as predictors subject. The three subjects were selected of such an examination ought to be ascertained. The researcher used three subjects namely determine how far they can go in life, in terms of education, therefore, the predictive validity prepare the students to have better performance in the external examinations, which will The aim of the government in Lagos State is nominalization to use Mock Examinations to as each candidate is

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Statement of Problem

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how successful teachers' instructions have been mastered. Prediction cannot be made if the in WASSCE is a national disaster examined in this work. (see Table1) For Olunloye. (2017), this ugly trend of high failure rate examination with the exception of years 2012 and 2017 out of the ten years result analyzed external Examinations is still unsatisfactory. It is disheartening to note that the academic performance of students in the Nigerian secondary school is consistently poor, in public examination that can serve as the basis of prediction, another word, it is when the predictive Despite the introduction of the Mock Examinations, the achievement of students in the validity is ascertained that the examination can be reliably used to predict future occurrence. between the criterion and the predictor variables could qualify it, or otherwise, as an correlation coefficient, with the criterion variable. The value of the correlation coefficient examination that is to serve as the predictor does not have a close relationship, in terms of the Mock examination as a trial examination is selective, predictive and diagnostic. It shows

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Table 1: Statistics of Performance of Candidate in Nigeria who Obtained Credit and Above (A1-C6) in May/June WASSCE between 2009-2018

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Year	Total No of	No of	% of students	No of students	% of students
	Candidate	Candidate that	with credit &	with (D7-F9)	with (D7-F9)
		obtained	above.		
		Above			
5		(A1-C6)			
2009	1,373,009	425,633	31.00	847,376	69.00
2010	1,351,557	453,447	33.55	898.110	66.45
2011	1,540,250	587.630	38.93	952,620	61.07
2012	1,675,224	819.390	49.00	852,834	51.00
2013	1,543,683	555.726	36:00	987,957	64.00
2014	1,692,435	529.732	31.30	1,162,703	68.70
2015	1,593,442	544.638	34.18	1,048,804	65.82
2016	1,544,234	597.310	38.68	946,924	61.32
2017	1,559,162	923,486	59.22	630,676	40.78
2018	1,572,396	786,016	49.98	786,380	50,02
Average	1,544,539	579,738	40.09	911,038	59.91
3)	2010	

Source: Test Development Division (WAEC cited in Gogo & Nduka, 2018).

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school students that sat for English language and Mathematics in WAEC each year from year 2017 and which dropped in 2018. The table above shows an inconsistency in the reduces again in years 2013 to 2016. However, there was considerable improvement in the there was little improvement in 2012, although not up to an average performance, but From table I above, the performance of students' in the year 2009 to 2011 was very low but while 59.91% of students scored pass and below (D7-F9). 2009 to 2018, only 40.09 of students that sat for the exams scored credit and above (A1-C6) Examination. Evidences from the table revealed that out of the total numbers of secondary of Nigerian students' in the West Africa Senior School Certificate

among others: the level of coverage of the syllabus by the examiners, the quality of the themselves. The observations and comments comment in the chief examiner report include school administrator, learning environment, school curriculum, parents and the students delivery at the secondary school level. The blame is sometimes apportioned to the teacher. performance is an indication that there are some underlying problems with the service According to the WAEC Chief Examiner reports, this unsteady trend of progress in the general and in each question. questions, candidates 'weaknesses, and strength, and the level of candidates' performance in

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ectiveness of the mock examination in predicting academic performance in the Senior mmenting on the above statistics, Oruwari (2014) blamed poor performance in English 100l Certificate Examination in English language, Mathematics, and Biology. ocern for stakeholders, hence the need for this study which sought to determine the proving students' performance in the external examination had remained a ngs even worse) or begin to wonder if they are in the right profession. A feasible way of rners, poor attendance and dropouts, may become overly critical of their students (making rse case drop out of school. Teachers confronted by poor grades unresponsive or hostile test, get discouraged about the subject, the curriculum, and themselves, and in some ry context. In consequence, students become bored and inattentive in the class, do poorly rners in the classroom, and they keep on embracing the same traditional teaching styles in coff Barker, 2012). However, most teachers have not understood the diversity of their n, the most accepted criteria for measuring good teaching is students' learning outcome nning instructional activities in the classroom. Teaching and learning are two sides of a iguage and Mathematics on teachers' insensitivity to the nature of the subjects when

rpose of the Study

purpose of this study is to determine the extent to which Mock Examination predicts the ievement of SSS three students in SSCE. Specifically, the study seeks to;

and Biology predicts students' achievement in WASSCE2016/17 session Determine the extent to which Mock Examination in Mathematics; English Language,

Determine if there is any relationship between students' performance in Mathematics, English Language and Biology Mock Examination and their achievement in

search Hypotheses

following null hypotheses were tested at 0.05 level of significance:

. There is no significant difference between the Mock Examination performance and 2016/2017 session. WASSCE performance in Mathematics, English Language and Biology in the

There is no significant relationship between Mock Examination and WASSCE performances in Mathematics, English Language and Biology

thodology

has six Education District; Education District II was purposive by sampled because rded scores of the students in Mathematics, English Language and Biology MOCK and r manifestation had already occurred (Ket linger,1975). he year 2016-2017 academic session formed the population of the study. The Lagos guage, Mathematics and Biology in the WASSCE examinations in Education District II lemic records offices. All the Senior Secondary III Students who registered for English rded from their personal academic files kept at their various secondary schools' design is ex-post-facto in that the researcher could not manipulate the variables because examination of 2016-2017 academic sessions. The students' The researcher compared scores were

students' grades could be obtained in STANINE form, that is, A1, B2, B3, C4, C5, C6, D7, secondary schools. It was a standardized proforma. It was designed in such a way that the used for the data collection was the students' grade chart (SGC). It was designed in such a E8 and F9 and assigned 1, 2, 3, 4, 6, 7, 8 and 9 respectively Mathematics, English Language and Biology of all the samples kept at the various way that the students' grades could be obtained in STANINE form. This comprises scores in records offices and their WASSCE results for the year 2016/2017 were used. The instrument recorded in their personal academic files kept at their various secondary schools' academic scores for mock examination in Biology, English Language and Mathematics which were Secondary School Three (SSIII) students constituted the sample for the study. The students' drawn from the 3 selected schools. Totaled a sum of one hundred, and fifty-two (152) Senior students were drawn from the 3 selected schools and Fifty (50) female students were also One school was randomly selected from each zone. One hundred and two (102) male district is made up of three educational zones, namely Somolu, Kosofe, and Ikorodu. SSS some Education districts refused to release their results for the study when visited. The

Results

Hypothesis 1: There is no significant difference in the Mock Examination performance and WASSCE performance in Mathematics, English Language, and Biology

Table 2: Paired-Samples t-Test of Difference in Students' Academic Performance between MOCK and WASSCE Examinations

	(n =152) Wean (Average) Oifference in sco	Mean (Average) Difference in scores d.f.	d.f.	t- value	sig. (p)	value	t-value sig. (p) value Remark	- 1
	MOCK English Language 0.07 *WASSCE English Language (7.41)	0.07	151	0.110	0.913		Not Significant	1
					•	-2	500 500 500 500	
Pairs	MOCK Mathematics *WASSCE Mathematics	10.12 (7.30)	151	17.096*	0.000		Significant	
*)	MOCK Bjology *WASSCE							
		(11.01)	151	151 3.771*	0.000	-	Significant '	

performance for the English Language there is no significant difference in the Mock Examination performance and WASSCE the dangling modifier, it can be said that there is a significant difference in the Mock Examination performance and WASS/CE performance for Mathematics and Biology, but value =0.000 < 0.05 (statistical benchmark) at 151 degree of freedom respectively. Owing to =17.096*, p-value =0.000 < 0.05 (statistical benchmark); For Biology: t-value =3.771*, pvalue =0.110, p-value =0.913 >0.05 (statistical benchmark); For Mathematics: t-value The paired samples t-Test analysis yielded the following results (For English Language: t-

lypothesis 2: There is no significant relationship between Mock Examination and WASSCE performances in Mathematics, English Language, and Biology.

able 3: An "r" statistical table showing the relationship (i.e., a measure of prediction) between MOCK Test and WASSCE Performances of students

ariables =152	2"	WASSCE English	WASSCE	WASSCE Biology
IOCK English anguage	Pearson Correlation	0.390**	Mathematics	,
	Sig. (2-tailed)	0.01		
OCK				
athematics	Pearson Correlation		0.384**	
	Sig. (2-tailed)		0.01	
OCK Biology	Pearson Correlation			
-	Sig. (2-tailed)		•	0.145
				0.074

ttistical benchmark)]. The results of the data analysis were summarized as follows: nguage) performances and WASSCE (English Language) performances. This was denced with a yield of the calculated "r" (r-cal. = 0.390*) at 152 degrees of freedom given histical significance could not hold for Biology [r-cal. = 0.145; p-value = 0.0740.05] he calculated "r" (r-cal. = 0.384*) at 152 degrees of freedom given that the obtained level tewise, a positive relationship was observed between MOCK (Mathematics) formances and WASSCE (Mathematics) performances. This was evidenced with a yield t the obtained level of significance (p-value) is 0.010.05 significance (p-value) is 0.010.05 revealed in Table 3 above, a positive relationship was observed between MOCK (English There is a significant difference in the Mock Examination performance and WASSCE (statistical benchmark). However, this trend of (statistical benchmark)

Mock Examination performance and WASSCE performance for English Language There is a significant relationship between Mock Examination and performance for Mathematics and Biology, but there is no significant difference in the WASSCE

performances for the English Language, Mathematics, but not for Biology.

cussion

ducted to find out whether or not the mock examination predicts the students hematics Mock result of students in WASSCE in Ekiti State, Nigeria. The study was ools in 6 local government areas in Ekiti state, Omirin and Ale (2008) revealed that there dity of English and Mathematics Mock result of students in WASSCE in Ekiti State, pirical assertion of Omirin and Ale (2008) whose investigation was on the predictive formance for the English Language. The present finding has a partial alliance with the ificant difference between the Mock Examination performance and WASSCE formance and WASSCE performance for Mathematics and Biology, but there is no ding one revealed that there is a significant difference between the Mock Examination hematics significantly predict good performance in WASSCE. Similarly, A related study SSCE English and Mathematics was significant. This is to say that mock English and ormance for English and Mathematics and that the degree of prediction of mock over carried out by Alc and Omodara (2015) on the predictive validity of the English and a significant difference between the Mock Examination performance and WASSCE With the use of ex-post facto research design on 360 students from 12 public

related in that it was on predictive validity and used Mathematics and English Language for and Mathematics significantly predict good performance in WASSCE. This study is highly raw scores of mock scored by the teachers in their various schools. These results were already existing data from the students' performance in these exams. The instruments used state. Ex-post facto type of research design was used as the study was carried out using the and Mock Examinations the prediction. It is however different in the sense that it was not carried out on the Transition over WASSCE English and Mathematics was significant. This is to say that mock English used to analyze the data. The result of the finding revealed the degree of prediction of mock collected in English Language and Mathematics. Correlation and regression analysis were for this research work were standardized tests administered and scored by WASSCE and the performance in the SSCE. A simple random sampling technique was used to select three hundred and sixty students from 12 public schools in six local government areas in Ekiti

relationship between the following: of variance (ANOVA). The result of the analysis revealed that there was positive significant students' entry qualification and their performances in the West African Examinations in support of Obije (1995) that sought to establish the relationship between electronic submitted that there is a positive relationship between the performances of students in senior school certificate Examination in Physics, English Language and Mathematics state with a sample of 250 students selected randomly out of 600 students who sat for the finding has a partial alliance with the study carried out by Innocent, Gladys, and Onyiyechi (2015). Their study which was carried out in Obio/Akpor Local Government Area of Rivers were collected and analyzed using Pearson moment correlation, Mean scores, and Analysis for the study. Students' entry qualification grade average point (GAP) and their performance background at the West African Examinations Council examination in technology. The difference among electronic students- those with a science background and those with arts Analysis of Variance (ANOVA) and multiple regression coefficients, yielding a result that The data collected was analyzed using Pearson Product Moment Correlation coefficients 2010 May/June WAEC Examination, with a checklist as the instrument for data collection Finding two revealed that there is a significant relationship between Mock Examination an Delta state Technical College in 1990, 1991 and 1992 including eighteen electronic teachers researcher sampled two hundred and nine (209) electronic students who passed out from Council technical examination. English Language, Mathematics Mock and their performance in Physics SSCE. The study is WASSCE performances for English Language, Mathematics, but not for Biology. This Also, it determined whether there is any significant

Electronic students' entry qualification grade average point and their performance at

West African Examination Technical

 Ξ examination and their last internal school examination. Electronic student performance at West African Examinations Council Technical

The mean performance of these categories of electronic students at the West African Examinations Council. Technical and

Students with a science background perform better than those with art background. He concluded that those students with good grade points in their school certificate had an improved performance in these examinations.

Conclusion and Recommendations

students' achievement in SSCE in Biology, English Language and Mathematics. It was This study focus was to determine the extent to which Mock Examinations predict the

eaching and learning, and improvement in candidates' performance in subjects' at WASSCE cached in this study, the following recommendations are at this moment offered for effective repairing students for external examinations. Given the results, the findings and conclusions ound that Mock Examinations in the three subjects, predicted students' achievement in In essence, the study revealed that Mock Examinations were a better option in

There should be proper coverage of the subject's syllabuses following a well-

planned and implemented scheme of work.

S 1 procedural and conceptual understanding for better performance of the students should be effective teaching of the subjects which should emphasize

Students should be encouraged to develop a positive attitude to the subject .which should be reflected in regular class attendance and active class participation

There should be a regular and copious assignment to students to enable them to

U More qualified teachers should be employed to reduce teacher to students' individual experience problems in different forms and build their confidence in their subjects.

their capacity for understanding and better performance. Students should be encouraged to improve their study habits, which could enhance

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