



# NATIONAL OPEN UNIVERSITY OF NIGERIA

91, Cadastral Zone, Nnamdi Azikiwe Expressway, Jabi, Abuja

## FIRST SEMESTER EXAMINATION, APRIL/MAY, 2019

COURSE CODE: EDU423 (2 units)  
COURSE TITLE: MEASUREMENT AND EVALUATION  
TIME: 2 HOURS  
INSTRUCTION: ANSWER QUESTION **ONE** AND ANY OTHER **TWO** QUESTIONS.

1. (a) A ten-item test was administered to ten ODL students (A to J). Each item was scored either 1 or 0; 1 for a correct response, 0 for an incorrect response. The results were

Students	Items									
	1	2	3	4	5	6	7	8	9	10
A	1	1	1	1	1	1	1	1	1	1
B	1	1	1	1	1	1	1	1	1	0
C	1	1	1	1	1	1	1	0	1	0
D	1	1	1	1	1	1	1	1	0	0
E	1	1	1	1	1	0	1	0	0	1
F	1	1	1	1	1	1	0	1	0	0
G	1	1	1	1	1	0	0	1	0	0
H	1	1	1	1	1	0	0	0	1	0
I	1	1	1	1	0	1	0	0	0	0
J	1	1	1	0	0	1	0	0	0	0

- (i) Which student had the lowest achievement? (2 marks)  
(ii) Calculate the total score for each student. (5 marks)  
(iii) Mention the four hardest items. (4 marks)  
(iv) What percentages of students scored items 5 and 9 wrongly? (3 marks)  
(v) Which two students had the least scores and what is the range of their scores? (2 marks)  
(b) (i) What is item standardisation? (2 marks)  
(ii) Describe each of the following terms: Criterion-referenced Interpretation and Norm-referenced Interpretation (6 marks)

- (c) The mean and standard deviation of scores of five students in EDU422 are 55 and 21.36 respectively. Dauda scored 80 while John scored 20. What is standard score of (i) Dauda and (ii) John using T-score? (6 marks)
2. (a) Discuss FOUR methods by which you can estimate the reliability of a test. (15 marks)
- (b) Distinguish between Criterion Validation and Predictive validity (5 marks)
3. (a) Differentiate between test item moderation and test item administration (5 marks)
- (b) Discuss any FIVE guidelines you would consider when writing test items. (15 marks)
4. (a) Explain in detail FOUR procedures required for comprehensive item analysis in Criterion-Referenced Mastery Tests. (12 marks)
- (b) Discuss processes involved in Criterion Reference grading (8 marks)