

NATIONAL OPEN UNIVERSITY OF NIGERIA

EXAMINATION, JULY 2017

COURSE CODE: EDU 726 (2 Units)

COURSE TITLE: MEASUREMENT AND EVALUATION

TIME: 2 HOURS

INSTRUCTION: ANSWER QUESTION **ONE (1)** AND ANY OTHER **TWO**

**(2)** QUESTIONS

1ai. Define the reliability of a **Test.**

ii. List the four (4) main methods of estimating reliability and the type of reliability

measure associated with each of them.

iii. What are the factors that influence reliability measures?

bi. Explain the meaning of test administration.

ii. What are the steps a teacher should adopt to ensure quality in test administration?

**(30 Marks)**

2ai. What do you understand by the term **Test**?

ii. Explain why a test is said to be limited as a measuring instrument.

bi. How would you classify the Essay test items?

ii. Which of the types of Objective test items would you recommend for school wide test

and why?

1. **arks)**

3. Table 1 shows the format for tallying responses for item analysis of test scores for a group of testees.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Item No. | Testees | Alternatives with Correct Option Starred  A B C D E Omit | Total | P-Value | D-Value | Option Distrator Index  A B C D E |
| 1 | Upper 27%  Lower 27% | 0 10\* 0 0 0 0  2 4\* 1 3 0 0 | 10  10 | 0.70 | 0.60 | 0.20 \* 0.10 0.30 0.00 |
| 2 | Upper 27%  Lower 27% | 1 1 0 7\* 1 0  1 2 1 4\* 1 1 | 10  10 |  |  |  |
| 3 | Upper 27%  Lower 27% | 3 0 1 2 4\* 0  1 0 1 3 5\* 0 | 10  10 |  |  |  |
| 4 | Upper 27%  Lower 27% | 0 0 10\* 0 0 0  0 0 10\* 0 0 0 | 10  10 |  |  |  |
| 5 | Upper 27%  Lower 27% | 2 3 3 1 1\* 0  3 3 1 2 1\* 0 | 10  10 |  |  |  |
| \*  \*  \* |  |  |  |  |  |  |
| 10 | Upper 27%  Lower 27% | 6\* 1 1 1 0 1  3\* 2 2 2 1 0 | 10  10 |  |  |  |

Use Table 1 to compute for item 2:

1. The item difficulty
2. The discriminating power
3. Effectiveness of distracters.

**(Q3 = 20 Marks)**

4a. Distinguish between the following pair of concepts:

1. Measurement and Evaluation
2. Test and Testing
3. Intelligence Test and Achievement Test

b. State the four (4) levels of Measurementand theirpossible arithmetic operations.

(20 Marks)