

UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF BACHELOR OF EDUCATION (ARTS) SECOND SEMESTER 2016/2017 [JANUARY - MAY, 2017]

EPSC 311: MEASUREMENT AND EVALUATION

STREAM: Y3S1

TIME: 2 HOURS

DAY: TUESDAY, 3:00-5:00 PM

DATE: 16/05/2017

INSTRUCTIONS

1. Do not write anything on this question Paper.

2. Answer question ONE and any other THREE questions.

QUESTION ONE

(a)	Define the following terms:	· · · · · · · · · · · · · · · · · · ·
	(i) Validity	[1 mark]
-	(ii) Reliability	[2 marks]
	(iii) Test	[2 marks]
	(iv) Evaluation	[2 marks]
	(v) Test usability	[2 marks]

- (b) Identify and explain five purposes of educational measurement.
 [10 marks]
- (c) Discuss the ethical issues in measurement and evaluation. [6 marks]

QUESTION TWO

- (a) Differentiate between objective and essay type tests. [4 marks]
- (b) (i) Which types of test will give the most reliable result? [1 mark]

(ii) Give two reasons why you think this is so.

[2 marks]

(c) Discuss the suggestions which have been put forward for scoring essay tests. [8 marks]

QUESTION THREE

- (a) State one reason why a teacher should conduct item analysis. [1 mark]
- (b) Study the following item analysis data for an item in a primary school Mathetest and answer the questions which follow.

RESPONSE	A*	В	С	D	OMITS
UPPER 50	36	5	0	6	0
LOWER 50	16	29	0	8	0

A* - Kev

Compute:

(i) The item difficulty index

[2 marks]

(ii) The item discrimination index

[2 marks]

(iii) Arrange the distracters from the best to the poorest

[2 marks]

- (c) Give three benefits of item analysis in teaching and learning. [3 marks]
- (d) List five criticisms leveled against the use of the tests or examinations as a means of determining student achievement. [5 marks]

QUESTION FOUR

Two physics tests (X) and (Y) were administered to ten form four students in a secondary school in Kericho County and the following scores were obtained by the students:

X; 23, 27, 28, 28, 28, 30, 30, 33, 35, and 38 Y; 18, 20, 22, 27, 21, 29, 27, 29, 28, 29

- (a) Compute the range, mean score, modal score and standard deviation for each of the tests. [12 marks]
- (b) Give two properties of the mean which make it the most suitable measure of central tendency. [2 marks]
- (c) Give one measure of variability that is commonly used in measurement and evaluation.

QUESTION FIVE

- (a) Discuss five measures or principles to ensure that a test is well administered. [10 marks]
- (b) State five factors that influence the reliability of a test. [5 marks]

QUESTION SEVEN SIX

(a) What is a scale?

[1 mark]

- (b) Describe the properties of each of the four types of scales used in educational measurement. [8 marks]
- (c) Using the spearman Brown formula calculate a reliability of the half test of the whole test if the reliability of the half test [2 mxs] is 0.1.

 It state 4 characteristics of a good test. [4 mxs]