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KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR
..... YEAR ...III..... SEMESTER I
MAIN EXAMINATION (PART-TIME)
FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS
(PART-TIME)

COURSE CODE: PSY 311

**COURSE TITLE: EDUCATION MEASUREMENT AND
EVALUATION**

DATE: 22ND JULY 2021

TIME: 9-11 A.M

INSTRUCTIONS TO CANDIDATES

Answer Question One and Any other TWO (2) Questions

TIME: 2 Hours

This Paper Consists of 3 Printed Pages. Please Turn Over.

1. (a). The data below shows the mass of 40 students in a class. The measurement is to the nearest kg.

55	70	57	73	55	59	64	72
60	48	58	54	69	51	63	78
75	64	65	57	71	78	76	62
49	66	62	76	61	63	63	76
52	76	71	61	53	56	67	71

(i) Use the above scores to prepare a grouped frequency distribution using a class interval size 5. It should include cumulative frequencies (5mks)

(ii) For the grouped data, determine the following:

i. Modal class (1mks)

ii. Median (3mks)

iii. Mean (3mks)

(iii) Determine the range for the grouped data. (1mk)

(iv). Construct a frequency polygon (5mks)

(v). Compute the variance and standard deviation for the grouped data. (4mks)

(b) Using relevant examples distinguish between the following:

i. Norm-referenced and criterion-referenced tests (4marks)

ii. Measurement and evaluation (4 marks)

(2) (a) What is a table of specification? (2mks)

(b) Using three topics in your area of specialization, construct a table of specification based on blooms taxonomy of education objectives (10mks)

(c) Discuss four measures that the Government of Kenya has taken to minimize cheating in National Examinations (8mks)

3. (a) Consider responses of a group of 40 examinees in a multiple choice item in an examination.

	A	B*	C	D	E	Omit
Upper group	0	12	0	5	3	0
Lower group	3	8	4	2	3	0

Asterisk indicates the correct answer (or key).

- i. Compute the Item difficulty and Item discrimination (8mks)
- ii. Identify the best distracter. Explain your answer (2mks)
- (b) State and explain five grading errors committed by examiners (10mks)
- (4) (a) What is item analysis? (2mks)
- (b) Discuss the four levels of measurement using relevant examples. (8mks)
- (c) Explain FIVE factors considered when choosing a test format. (8 marks).
- 5. In a biology test, the mean was 48 and standard deviation was 5 for a group of 150 Form II students.
 - (a) Assuming a normal distribution,
 - (i) How many scores were there between 43 and 53? (4mks)
 - (ii) How many were there above 43? (3mks)
 - (b) Supposing due to limited facilities, 90% of top students are to be selected using these scores, what is the minimum score a pupil has to obtain so as to be selected? (5mks)
 - (c) Discuss the importance of a normal distribution to a teacher (8mks)