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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: 04/10/2121

TIME: 2 -4PM

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.

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

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: (5mks)
- Modal class (1mks)
 - Median (3mks)
 - 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:
- Norm-referenced and criterion-referenced tests (4marks)
 - 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		5	3	

			0			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)