(Knowledge For Development)

KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS

2021/2022 ACADEMIC YEAR

THIRD YEAR SEMESTER TWO

MAIN EXAMINATION

FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS

(PART-TIME)

COURSE CODE: PSY 321

COURSE TITLE: EDUCATION MEASUREMENT AND EVALUATION

DATE: 9/9/2022 **TIME: 8:00-11:00AM**

INSTRUCTIONS: Answer Question One and Any other TWO (2) Questions

TIME: 2 Hours

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

Question One **(30 mks)**

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

(iv) Use the above scores to prepare a grouped frequency distribution using a class interval size 5.

It should include cumulative frequencies (5mks)

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

a) Modal class (1mks)

b) Median (3mks)

c) Mean (3mks)

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

e) Determine the quartile deviation (5mks)

f) 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)

Question Two **(20mks)**

(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 Examination (8mks)

Question Three **(20marks)**

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)

Question four **(20 mks)**

(4) (a) What is item analysis? (2mks)

(b) Discuss the levels of measurement using relevant examples. (8mks)

(c) Explain four factors that influence reliability of test (8 marks).

Question Five **(20 mks)**

5. In a biology test, the mean was 48 and standard deviation was 5 for a group of 150 Form II students.
   (e) Assuming a normal distribution,
      (i) How many scores were there between 43 and 53? (4mks)
      (ii) How many were there above 43? (3mks)

   (f) 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)

   (g) Discuss the importance of a normal distribution to a teacher (8mks)