



KIBABII UNIVERSITY
UNIVERSITY EXAMINATIONS
2020/2021 ACADEMIC YEAR
..... YEAR ...III..... SEMESTER I
SPECIAL/SUPPLEMENTARY EXAMINATION
FOR THE DEGREE OF BACHELOR OF EDUCATION ARTS
(REGULAR)
COURSE CODE: PSY 321

**COURSE TITLE: EDUCATION MEASUREMENT AND
EVALUATION**

DATE: 18-01-2022

TIME: 8.00-10.00AM

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

(iv) Use the above scores to prepare a grouped frequency distribution using a class interval size 5, starting with class 45-49 as lowest class interval. (5mks)

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

- iv. Mode (1mks)
- v. Median (3mks)
- vi. Mean (3mks)

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

(iv) Construct a cumulative frequency polygon or ogive for the data (5mks)

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

(b) Using relevant examples distinguish between the following:

- i. Inferential and descriptive statistics (4marks)
- ii. Parameter and estimator (4 marks)

(2) (a) Define the 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 challenges the Government of Kenya is facing when administering 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) Explain five grading errors committed by examiners (10mks)
- (4) (a) Define the term analysis? (2mks)
- (b) Discuss the four levels of measurement using relevant examples. (8mks)
- (c) Explain FIVE factors considered when choosing a test format. (10mks).
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 (15mks)