



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

SECOND SEMESTER EXAMINATION FOR DIPLOMA IN PRIMARY TEACHER EDUCATION

EPS 206: EDUCATIONAL MEASUREMENT AND EVALUATION

DATE: Friday, 19th May 2017

TIME: 4.30 p.m. - 6.30 p.m.

INSTRUCTIONS:

Answer ALL questions in both section A and B.

SECTION A (40 Marks)

1. Distinguish between the following terms: (10 Marks)

- (i) Statistics and statistic
- (ii) Discrete variable and continuous variable
- (iii) Population and sample
- (iv) Measurement and evaluation
- (v) Test and examination

2. (a) Explain two reasons why teacher trainees should study educational statistics and evaluation. (2 Marks)

- (b) The following are marks scored by 25 pupils in a Kiswahili test.

38 40 36 31 37 38 37 39 34 38 39 30 33 37
38 32 34 28 35 24 25 37 30 38 39

- (i) Make grouped frequency distribution taking 23–40 as the lowest class interval, indicating the tally marks, frequency, cumulative frequency below, midpoint, and real limit columns. (5 Marks)
- (ii) Calculate the following:
 - (a) Mean (3 Marks)
 - (b) Median (3 Marks)
 - (c) Standard deviation (3 Marks)

3. (a) By giving a relevant example explain any two forms types of educational evaluation. (6 Marks)
- (b) Explain four uses of test in education evaluation. (4 Marks)
- (c) Highlight three roles of educational objectives in measurement and evaluation. (3 Marks)

SECTION B (30 Marks)

4. The table below gives a summary of students' responses on one multiple choice item.

Item	Group	Options					
			B	C	D	Omits	Total
	Upper Group		2	1	1	0	20
	Lower Group		6	4	3	1	20

Note: A* is the key

- (i) Calculate the item difficulty index and discrimination index for the item. (4 Marks)
- (ii) Comment on the quality of the item based on the item analysis data obtained in (i) above. (2 Marks)
- (iii) Explain two roles of item analysis in evaluation. (4 Marks)
5. (a) Highlight four disadvantages of multiple choice question items in evaluation. (4 Marks)
- (b) Briefly explain six factors considered when deciding on particular format to use in constructing Achievement tests. (6 Marks)
6. (a) Distinguish between test reliability and test validity. (2 Marks)
- (b) Describe two ways that teachers can use to ascertain reliability test. (4 Marks)
- (c) Briefly describe any two types of test validity. (4 Marks)