

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION (ARTS)

EPSC 311: MEASUREMENT AND EVALUATION

STREAMS: B.ED SCIE, ARTS Y3S1

TIME: 2 HOURS

DAY/DATE: THURSDAY 7/12/2017

11.30 A.M - 1.30 P.M.

INSTRUCTIONS:

- Answer Question ONE and any other TWO Questions
- Do not write on the question paper

QUESTION ONE [30 MARKS]

1. (a) Distinguish between:

- (i) Testing and assessment [4 Marks]
- (ii) Measurement and evaluation [4 Marks]
- (iii) Speed tests and power test. [2 Marks]

(b) Use the following data or scores obtained by 30 Form 3 students from Ndagani Secondary in a Biology Test.

46	31	18	39	40	38
37	19	15	26	14	37
24	41	18	19	21	25
31	10	20	21	32	46
20	30	32	27	31	37

- (i) Use the above scores to prepare a grouped frequency distribution using a class interval size 5 and starting with 10-14 as your lowest class interval. [5 Marks]
- (ii) Basing on your grouping in (a) above, prepare a complete frequency distribution table for grouped data having the following columns:
 - (i) Class interval [1 Mark]
 - (ii) Tally marks [1 Marks]
 - (iii) Frequency [2 Marks]
 - (iv) Mid points [1 Mark]

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- (c) For the grouped data, calculate/compute:
 - (i) Mode [1 Mark]
 - (ii) Median [1 Mark]
 - (iii) Mean [4 Marks]
 - (iv) Variance [2 Marks]
 - (v) Standard Deviation [2 Marks]

QUESTION TWO [20 MARKS]

- (a) Why is measurement and evaluation key in any educational system? [5 Marks]
- (b) Identify any five characteristics of a good test. [5 Marks]
- (c) Describe the main areas or domains of Bloom’s Taxonomy that a teacher should consider while planning a test. [10 Marks]

QUESTION THREE [20 MARKS]

- (a) (i) Define measurement scale [4 Marks]
- (b) Identify any four measurement scales and cite one relevant example in each. [8 Marks]
- (c) Show the relevance of a table of specification when a teacher uses it to construct a test. [8 Marks]

QUESTION FOUR

- (a) Define validity. [2 Marks]
 - (b) Describe three types of validity and give relevant examples in each case. [9 Marks]
 - (c) Distinguish between qualitative and quantitative methods applied in selection of test items and give three examples in each type. [9 Marks]
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