CHUKA   **UNIVERSITY**

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR
OF EDUCATION ARTS**

EPSC 311: MEASUREMENT AND EVALUATION IN EDUCATION

STREAMS: BED (SCI & ARTS)   **TIME: 2 HOURS**

DAY/DATE: MONDAY 09/12/2019   **2.30 P.M. – 4.30 P.M.**

INSTRUCTIONS: Answer question ONE and any other TWO questions

Q1.   (a)   Explain the meaning of the following terms as used in measurement and
evaluation   [10 marks]

       (i)   Measurement

       (ii)   Evaluation

       (iii)   Reliability

       (iv)   Validity

       (v)   Formative assessment

(b)   The following data shows marks scored in a physics exam

49	48	19	12	39	11	80	60
50	52	16	17	49	19	71	58
71	48	38	15	54	58	51	55
65	59	41	28	78	44	19	51
49	45	62	73	75	59	64	46

Calculate the following:

       (i)   Mean   [4 marks]

(ii)   Mode   [2 marks]

(iii)   Median   [2 marks]

(iv)   Range   [2 marks]

(v)   Standard deviation   [4 marks]

(c)   Describe any three quantitative methods applied in selection of test items

[6 marks]

Q2.   (a)   Identify any four characteristics of a good test.   [4 marks]

(b)   Identify and explain the six levels of Bloom's taxonomy that a teacher should
       consider when preparing a test.   [16 marks]

Q3.   (a)   Describe any five types of scores used in scoring a test   [10 marks]

(b)   Discuss five factors to consider when administering a test.   [10 marks]

Q4.   The following data shows marks scored in mathematics test

22	47	66	44	60	33	27	56
34	54	17	43	64	48	38	59
42	52	38	51	68	49	47	60
48	65	40	57	98	55	46	62
64	77	30	37	45	42	58	57
51	69	69	83	56	55	64	70
86							

(a)   Using the lowest class interval 10 – 19, prepare grouped frequency distribution

[8 marks]

(b)   Use the grouped data to calculate

(i)   The mean   [3 marks]

(ii)   The median   [3 marks]

(iii)   Mode   [3 marks]

(iv)   The Standard deviation   [3 marks]