

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION
(ARTS AND SCIENCE)**

EPSC 311: MEASUREMENT AND EVALUATION

STREAMS: BED (ARTS & SCI) Y3S1

TIME: 2 HOURS

DAY/DATE: MONDAY 29/03/2021

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- Answer question ONE and TWO others.

QUESTION ONE (30 MARKS)

1. (a) Define these terms
- | | |
|-----------------|-----------|
| (i) Measurement | (2 marks) |
| (ii) Evaluation | (2 marks) |
| (iii) Test | (2 marks) |
| (iv) Assessment | (2 marks) |
| (v) Examination | (2 marks) |
- (b) Describe any four types of evaluation that are used in education that are used in educational institutions in Kenya. (8 marks)

- (c) The data below was obtained from form one student's mathematics scores.

30	69	46	63	43	66	53	57
45	70	59	62	51	77	65	68
60	64	48	70	54	60	53	51
70	60	55	65	62	78	69	68
50	72	42	72	58	65	50	61
74	80	79	84	87	75	86	75
80	81	90	96				

- (i) Prepare a grouped frequency distribution table beginning with a class 30 – 39

- (ii) Calculate the following from the above data: (3 marks)
- (i) Mean (3 marks)
 - (ii) Variance (3 marks)
 - (iii) Standard deviation (1 mark)
- (iii) Identify the
- (i) Modal class (1 mark)
 - (ii) Median class (1 mark)

QUESTION TWO (20 MARKS)

2. (a) Describe the four scales of measurement by giving examples of each. (8 marks)
- (b) Discuss any four factors which affect validity of a test. (4 marks)
- (c) Ouma is a high school teacher who is newly recruited by T.S.C to teach in Jamhuri high school. Advise him on the types of test item formats that he should employ in constructing a form one test. (8 marks)

QUESTION THREE 20 MARKS

3. (a) Describe the Bloom's taxonomy cognitive domains that a teacher should use in constructing a test in secondary school by citing relevant examples in each. (12 marks)
- (b) Explain how examinations should be administered by teachers to avoid cheating among students. (8 marks)

QUESTION FOUR (20 MARKS)

4. (a) Discuss the four major factors that a secondary school teacher should consider when constructing a physics form three test. (8 marks)
- (b) Examine any four types of validity of a test. (8 marks)
- (c) Critically analyse four factors to be considered by teachers when doing formative evaluation. (4 marks)
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