

CHUKA



UNIVERSITY

**UNIVERSITY EXAMINATIONS  
RESIT/SPECIAL**

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

**EPSC 311: MEASUREMENT AND EVALUATION**

**STREAMS: BED (ARTS/SCI)**

**TIME: 2 HOURS**

**DAY/DATE: TUESDAY 02/02/2021**

**2.30 P.M. – 4.30 P.M.**

**INSTRUCTION:**

- ANSWER QUESTION ALL QUESTIONS
- DO NOT WRITE ANYTHING ON THE QUESTION PAPER

**QUESTION ONE**

- (a) Define the following concepts as applied in measurement and evaluation.
- i) Measurement
  - ii) Evaluation
  - iii) Test
  - iv) Assessment
  - v) Validity [10 marks]
- (b) Explain five reasons why it is important to study measurement and evaluation. [10 marks]

**QUESTION TWO**

- (a) Citing relevant examples identify the major difference between interval scale and ratio scale of measurement. [4 marks]

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- (b) Tests are administered to students for various reasons. Explain the purpose of the following tests
- i. Norm referenced tests
  - ii. Criterion referenced tests
  - iii. Objective referenced test [12 marks]

### QUESTION THREE

- (a) In Kenya the performance of students in national examinations at primary and secondary levels has remained as sole criteria for placement of students in next higher level of education. Critique this system of evaluation and propose the alternative. [10 marks]
- (b) Discuss any four types of evaluation. [10 marks]

### QUESTION FOUR

The following data was obtained from a statistics test.

35	50	30	18	42	30	60	55	60	55
50	40	45	40	38	60	40	35	40	50
60	48	38	35	59	35	45	35	50	43
56	45	40	90	72	59	37	20	85	82
70	69	28	61	64	53	36	48	87	50

#### Required

- a) Draw a grouped frequency distribution table starting with 10-19 class interval [4 marks]
- b) Compute
  - i) Mean
  - ii) Median
  - iii) Mode
  - iv) Variance
  - v) Standard deviation [16 marks]

**QUESTION FIVE**

- (a). Assuming you have been hired by teachers' service commission to teach chemistry in a Kenyan secondary school, demonstrate how you would use the table of specification to construct a standard and comprehensive chemistry examination in form two. [10 marks]
- (b) Discuss the procedure for test administration that would be effective in minimizing cheating in Kenya secondary schools. [10 marks]
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