



**MACHAKOS UNIVERSITY**

**University Examinations for 2019/2020 Academic Year**

**SCHOOL OF AGRICULTURAL SCIENCES**

**DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION**

**SUPPLEMENTARY/SPECIAL EXAMINATION FOR THE DEGREE OF BACHELOR OF  
SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION**

**AEE 222: EVALUATION AND MEASUREMENT IN AGRICULTURAL EDUCATION AND  
EXTENSION**

**TIME:**

**DATE:**

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**INSTRUCTION TO CANDIDATES: Answer ALL questions from Section A and any other TWO from Section B**

**SECTION A: COMPULSORY -30 MARKS**

**QUESTION ONE**

- a. Differentiate between test reliability and test validity as used in measurement and evaluation 4mks
- b. State four factors that affect validity of an agriculture test 4mks
- c. Distinguish between the following types of test validity
  - i. Content validity and construct validity 4mks
  - ii. Predictive validity and Criterion-related validity 4mks
- d) Distinguish between the following
  - i. Measurement and assessment 3mk

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|--|------|
| ii. Formative and summative evaluation | 3mks |
| iii. Tests and Examination             | 2mks |
| iv. Explain THREE uses of a tests      | 6mks |

**SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)**

**QUESTION TWO**

Explain the meaning of the following as used in measurement and evaluation in agriculture subject

- |                                   |      |
|-----------------------------------|------|
| a. Order effect                   | 5mks |
| b. Item to item carry over effect | 5mks |
| c. Test to test carry over effect | 5mks |
| d. Halo effect                    | 5mks |

**QUESTION THREE**

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|--|-------|
| a. Formulate FOUR instructional objectives in the topic “Dairy farming”, a form two agriculture topic            | 5mks  |
| b. Construct THREE multiple choice items and prepare a marking scheme for the items from the topic in (a) above. | 5mks  |
| c. Describe the procedure administering an agriculture test among farmers in an agricultural training centre     | 10mks |

**QUESTION FOUR**

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|--|-------|
| a. Explain the meaning of a test table of specification  | 2mks  |
| b. Choose a topic of your choice in agriculture and prepare a test table of specification for a one-hour test with a total score of 50%. | 8mks  |
| c. Explain FIVE rules that should be followed in construction of agriculture essay test  | 10mks |

**QUESTION FIVE**

Explain FIVE levels of educational objectives for each of the following domains of learning

- |                       |       |
|-----------------------|-------|
| a. Psychomotor domain | 10mks |
| b. Cognitive domain   | 10mks |