



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:

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 THREEE 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

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|----|--------------------------------|------|
| 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

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