

MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF AGRICULTURAL SCIENCES

DEPARTMENT OF AGRICULTURAL EDUCATION AND EXTENSION SECOND YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

AEE 222: EVALUATION AND MEASUREMENT IN AGRICULTURAL EDUCATION AND EXTENSION

DATE: 23/11/2020 TIME: 2.00-4.00 PM

INSTRUCTIONS:

Answer ALL questions from Section A and any other TWO from Section B

SECTION A: COMPULSORY 30 MARKS

QUESTION ONE (30 MARKS)

a)	Explain the meaning of test reliability as used in measurements and evaluation		(2 marks)
b)	Explain four factors that affect the reliability coefficient of an agriculture test		(2 marks)
c)	Explain the following types of test validity		
	i.	Content validity	(2 marks)
	ii.	Construct validity	(4 marks)
	iii.	Criterion-related validity	(4 marks)
d)	Explain the meaning of the following terms as used in measurement and evaluation		
	i.	Assessment	(2 marks)
	ii.	Measurement	(2 marks)
	iii.	Evaluation	(2 marks)
	iv.	Testing	(2 marks)
	v.	Examination	(2 marks)
e)	Explain THREEE uses of a tests (6 m		(6 marks)

SECTION B: ANSWER ANY TWO QUESTIONS (40 MARKS)

QUESTION TWO (20 MARKS)

- a) Formulate FOUR instructional objectives in the topic "Vegetable growing", a form two agriculture topic (5 marks)
- b) Construct THREE multiple choice items and prepare a marking scheme for the items from the topic livestock diseases in form three Agriculture. (5 marks)
- c) Describe the procedure administering an agriculture test among farmers in an agricultural training centre (10 marks)

QUESTION THREE (20 MARKS)

- a) Explain the meaning of a test table of specification (2 marks)
- 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%. (8 marks)
- c) Explain FIVE rules that should be followed in construction of essay item. (10 marks)

QUESTION FOUR (20 MARKS)

Explain the meaning of the following as used in scoring in agriculture tests

- a) Halo effect (5 marks)
- b) Item to item carry over effect (5 marks)
- c) Test to test carry over effect (5 marks)
- d) Order effect (5 marks)

QUESTION FIVE (20 MARKS)

Explain the taxonomy of educational objectives in the following domains of learning

- a) Cognitive domain (10 marks)
- b) Psychomotor domain (5 marks)
- c) Affective domain (5 marks)