

2<sup>nd</sup> SEM. 2011/2012

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### UNIVERSITY OF SWAZILAND

## SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME:

**AGRICULTURAL EDUCATION YEAR 3** 

**COURSE CODE:** 

**AEE 301** 

TITLE OF PAPER:

**EDUCATIONAL RESEARCH METHODS** 

TIME ALLOWED:

**THREE (3) HOURS** 

**INSTRUCTION:** 

**ANSWER ALL (4) QUESTIONS** 

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#### **AEE 301 SUPPLEMENTARY EXAM.**

### **QUESTION 1**

- a. Write short notes on each of the following concepts as used in educational research and statistics. Provide brief answers illustrating your understanding of each concept.
  - i. Reliability Coefficient
  - ii. Construct Validity
  - iii. Face Validity
  - iv. Fail to reject a hypothesis
  - v. Reject a hypothesis
  - vi. Self-administered questionnaire
- vii. Alpha level
- viii. Null hypothesis
- ix. Type II Error
- x. Ex post facto

(20 Marks)

b. Compare and contrast pilot and field testing of instruments prior to data collection.

(05 Marks)

[25 Marks]

#### **QUESTION 2**

a. Explain, with examples, each of the following measurement scales: (i) Ratio; (ii) Interval; (iii) Ordinal and (iv) Nominal Scales.

(16 Marks)

b. Compare and contrast **theoretical** and **conceptual frameworks** in writing up a research proposal in Agricultural Extension & Education.

(9 Marks)

[25 Marks]

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## **QUESTION 3**

Explain each of the following:

(a) Null hypothesis	(5 Marks)
(b) Alternate Hypothesis	(5 Marks)
(c) Fail to reject a hypothesis	(5 Marks)
(d) Type I error	( 5 Marks)
(e) Type II error	(5 Marks)
	(25 Marks)

# **QUESTION 4**

Outline the key **elements** or **components** to guide one in writing a good research proposal in Agricultural Extension & Education in Swaziland.

(25 Marks)