



**2<sup>nd</sup> SEM. 2013/2014**

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**UNIVERSITY OF SWAZILAND  
MAIN EXAMINATION PAPER**

**PROGRAMME : AGRICULTURAL EDUCATION YEAR 3**

**COURSE CODE : AEE 301**

**TITLE OF PAPER : EDUCATIONAL RESEARCH METHODS**

**TIME ALLOWED : TWO (2) HOURS**

**INSTRUCTION : ANSWER ALL (4) QUESTIONS**

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CHIEF INVIGILATOR**

**QUESTION 1**

Define the following terms as they are used in educational research and statistics:

- a. Ordinal scale
- b. Nominal scale
- c. Ratio scale
- d. Interval scale
- e. Type I Error
- f. Type II Error
- g. Field testing
- h. Quantitative Analysis
- i. Reliability
- j. Validity
- k. Reliability co-efficient
- l. Ethical consideration
- m. Dependent variable
- n. Independent variable
- o. Rival variable
- p. Construct validity
- q. Face validity
- r. Effect size
- s. Conceptual framework
- t. Theoretical framework
- u. Unit of Analysis
- v. Population
- w. Pilot testing
- x. Correlation
- y. Qualitative research

[Note: Each response carries one (1) point]

**(25 MARKS)**

**QUESTION 2**

- a. Describe the **four (4)** major uses of research giving examples in Agricultural Education for each use **(8 Marks)**
- b. Describe **six (6)** steps to be followed when conducting research in Agricultural Education **(12 Marks)**
- c. If a researcher in Agricultural Education chooses to use a close-ended questionnaire to gather data, what two procedures would make the instrument trustworthy?  
**(5 Marks)**

**(25 MARKS)**

**QUESTION 3**

Identify and discuss **five (5)** components that constitute a good research proposal in Educational Research.

[Note: Each response carries 5 marks]

**(25 MARKS)**

**QUESTION 4**

Discuss **five (5)** reasons why the Methodology Chapter in a research proposal in Agricultural Education research is a core chapter.

[Note each response carries 5 points]

**(25 MARKS)**