



2nd SEM. 2013/2014

PAGE 1 Of 3

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

DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY THE CHIEF INVIGILATOR

QUESTION 1

Define the following terms as they are used in educational research & 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. Mean
- v. Standard deviation
- w. Pilot testing
- x. Correlation
- y. Qualitative research (1 point each)

(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 **Five (5)** steps to be followed when conducting research in Agricultural Education **(10 Marks)**
- c. State **Seven (7)** reasons why we conduct research giving examples in Agricultural Education **(7 Marks)**

(25 MARKS)

QUESTION 3

Identify and discuss the major elements that constitute the Methodology Chapter in Educational Research. **(2.5 Marks each)**

(25 MARKS)

QUESTION 4

Identify and discuss the similarities and differences between Theoretical framework and Conceptual framework including their importance in conducting research in Agricultural Education.

(25 MARKS)