



2nd SEM. 2005/2006

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURAL
EDUCATION YEAR IV**

**BACHELOR OF SCIENCE IN HOME ECONOMICS
EDUCATION YEAR IV**

COURSE CODE: AEE 404

TITLE OF PAPER: DATA COLLECTION PROCEDURES

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ALL FOUR (4) QUESTIONS

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PAGE 2 OF 2
AEE 404: MAIN EXAM.

QUESTION 1

Discuss in details, when it is appropriate to use each of the following data collection methods/procedures in the conduct of research:

- | | |
|-----------------------------|--------------------------|
| (a) Delphi Technique | [5 marks] |
| (b) Focus group interview | [5 marks] |
| (c) Nominal group technique | [5 marks] |
| (d) Mail Questionnaire | [5 marks] |
| (e) Personal interview | [5 marks] |
| | [Total: 25 marks] |

QUESTION 2

Discuss in details, **five (5)** ways of controlling measurement error of an instrument.

[25 marks]

QUESTION 3

Discuss in details, with examples, when is it appropriate to use each of the following data analysis techniques/procedures in the conduct of research:

- | | |
|-----------------------------|-------------------|
| (a) Dependent t-test | |
| (b) Spearman rank (r_s) | |
| (c) One Way ANOVA | |
| (d) CROSSTABS | |
| (e) Inferential statistics | |
| | [25 marks] |

QUESTION 4

Explain, with examples, the following concepts as used in data collection procedures

- | | |
|---|--------------------------|
| (a) Attitudinal scale | [5 marks] |
| (b) Field test | [5 marks] |
| (c) Construct validity | [5 marks] |
| (d) Controlling for non-response error | [5 marks] |
| (e) Establishing suitability of an instrument | [5 marks] |
| | [Total: 25 marks] |