



1ST SEM. 2006/2007

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**UNIVERSITY OF SWAZILAND
SUPPLEMENTARY EXAMINATION PAPER**

PROGRAMME: BSC. IN AGRICULTURAL EDUCATION YEAR III

COURSE CODE: AEE 301

**TITLE OF PAPER: EDUCATIONAL RESEARCH,
 INSTRUMENTATION AND DATA
 ANALYSIS**

TIME ALLOWED: TWO (2) HOURS

INSTRUCTION: ANSWER ALL QUESTIONS

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GRANTED BY THE CHIEF INVIGILATOR**

QUESTION 1

a. Distinguish Matching and Blocking with example for each, in relation to educational research.

[8 marks]

b. Describe how each of these three groups of data collection techniques for instrumentation formulation is conducted: Delphi; Focus Group Discussion; and, Nominal Group.

[17 marks]

[Total: 25 marks]

QUESTION 2

Describe in detail how each of the following processes is conducted prior to doing a survey research:

- a. Construct validity testing
- b. Content validity testing
- c. Suitability testing
- d. Reliability testing

[25 marks]

QUESTION 3

a. Illustrate an example of each of these types of attitude scales, with at least three items for each:

- i. Likert-type or summated rating scale
- ii. Thurstone or equal-appearing interval scale
- iii. Guttman or cumulative scale
- iv. Semantic differential

[16 marks]

b. Contrast the following terminologies, in relation to theory building:

- i. Functional Approach
- ii. Model
- iii. Deduction
- iv. Induction

[8 marks]

[Total: 25 marks]

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QUESTION 4

Describe in detail the characteristics of these types of surveys:

- a. survey of records or archives
- b. mail questionnaire
- c. telephone interview
- d. group interview
- e. individual interview

[25 marks]