

1ST SEM. 2008/2009

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME:

BSC. IN AGRICULTURAL EDUCATION YEAR III

(DIRECT AND TRANSFER)

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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QUESTION 1

Narrate one <u>named qualitative</u> and one <u>named quantitative</u> method/type of research with the following aspects:

- a. Title with not more than 11 words; with all desired elements
- b. Statement of Theory
- c. Statement of Concept to be tested
- d. Illustration of a Model or Paradigm to be tested
- e. Three possible internal threats to validity of the study and justification

[5 marks each]
[Total marks: 25]

QUESTION 2

List five points describing each terminology:

- a. Maximise the experimental variance
- b. Minimise the error variance
- c. Control the extraneous variance
- d. Research objective
- e. Hypothesis

[5 marks each]
[Total marks: 25]

QUESTION 3

Differentiate the following pairs of terminologies with each other, and with one example for each:

- a. Reactive versus Non-reactive measure
- b. Single versus Multiple outcomes measure
- c. Matching versus Blocking
- d. Ratio versus Interval data
- e. Validity versus Reliability

[5 marks each]
[Total marks: 25]

QUESTION 4

Write the <u>letter only</u> for the best answer:

a. For the following questions, identify whether the	ne definition refers to:
A) Population	D) Random Sampling
B) Target Population/Sampling Frame	E) Census
C) Sample	F) Selection Bias
1. Some subjects had more chances than others to be selected in the sample.	
2. Actual list of sampling units from which the sample is selected.	
3. Studying the entire population, especially if it is small in number.	
4. Group of individuals having one characteristic that distinguishes them from the other groups.	
5. Group of participants in a study selected from the target population, from which the research generalizes.	
b. For the following questions, identify whether th	
A) Frame error	D}Validity error
B} Sampling bias	E) Reliability error
C} Selection error	F} Non-response error
6. Did not use an instrument with clear, unambiguous questions and response options	
7. Did not use rigorous procedures to have large return rate	
8. The list of subjects did not include new members	
9. The sample was not drawn randomly	
10. The sampling frame had names of subjects listed more than once	
11. Some items in a section of a questionnaire do not relate well with one another	
12. Did not use rigorous procedures to have large return rate	
13. The instrument included irrelevant items for the study	