

2nd SEM. 2010/2011

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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 METHODS

TIME ALLOWED:

TWO (2) HOURS

INSTRUCTION:

ANSWER ALL QUESTIONS

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QUESTION 1

a. How does a researcher formulate Theoretical Framework and Conceptual Framework? Explain.

[10 marks]

b. Identify this research design and give three examples of internal validity threats and two external validity threats in this research design:

O1 O2 O3 O4 X O5 O6 O7 O8

[15 marks]

Total: 25 marks

QUESTION 2

a. Differentiate a method of random sampling with a method of non-random sampling.

[8 marks]

b. Give five (5) examples of strata that can be used in stratified random sampling.

[5 marks]

- c. Construct a table and show in column 1 the advantage, and in column 2 the disadvantage, of using each of these group data collection techniques:
 - i. Focus group discussion
 - ii. Nominal group technique
 - iii. Delphi technique

[4 marks for each = 12 marks]

[Total: 25 marks]

QUESTION 3

- a. Differentiate these principles associated with measurement and give example for each:
 - i. reactive versus non-reactive measure
 - ii. single versus multiple outcomes/triangulation measure
 - iii. matching versus blocking

[3 marks for each = 9 marks]

- b. Give two examples for each of these concepts:
 - i. Measure in Ordinal scale
 - ii. Measure in Nominal scale
 - iii. Measure in Interval scale
 - iv. Measure in Ratio scale
 - v. Variable
 - vi. Variate
 - vii. Rival Variable

[2 marks for each = 14 marks]

c. What two forms of instrument suitability testing a researcher conducts?

[2 marks]

Total: 25 marks

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QUESTION 4

a. If you were confident that your new way of teaching remedial reading (1) would improve the reading achievement scores over the old way (2), then your hypotheses would be:

H₁: $\mu_1 > \mu_2$; and H₀: $\mu_1 = \mu_2$

Explain the two hypotheses above.

[4 marks]

- b. Describe in detail how each of the following testing procedures is conducted prior to doing a survey research:
 - a. Construct validity testing
 - b. Content validity testing
 - c. Face validity

[4 marks each = 12 marks]

c. List four (4) data/literature bases that you have used in the library to search for information for your courses:

[4 marks]

d. How would a student about to do a Research Project course find a researchable problem? Explain in five (5) points.

[5 marks]

[Total: 25 marks]