



2nd SEM. 2005/2006

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME : **B.SC. IN AGRICULTURE (APH-OPTION) YEAR IV**

COURSE CODE: : **APH 407**

TITLE OF PAPER : **RESEARCH METHODS**

TIME ALLOWED : **TWO (2) HOURS**

INSTRUCTIONS : **ANSWER ANY FOUR QUESTIONS**

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QUESTION ONE

Give an account of the purpose of literature review and the steps followed in reviewing literature for the purpose of carrying out research in animal production and health. (25 Marks)

QUESTION TWO

Describe the three (3) methods used to sample the animals to be used in carrying out an experiment in animal production and health and indicate three advantages and disadvantages of each of these methods. (25 Marks)

QUESTION THREE

Discuss the usefulness and the problems more likely to be encountered in conducting on farm research in animal production and health and suggest possible solutions to these problems. (25 Marks)

QUESTION FOUR

Describe how a Randomized Complete Block Design is used to carry out research in animal production and health and indicate the advantages and disadvantages of this design. (25 Marks)

QUESTION FIVE

Explain how the Analysis of Variance (ANOVA) is carried out on data collected from the following experimental designs.

- i. Completely Randomized Design (5 Marks)
- ii. Randomized Complete Block Design (10 Marks)
- iii. Factorial Design (10 Marks)

QUESTION SIX

List the major sections of a scientific paper you would prepare for publication in scientific journals and explain the major features of each section. (25 Marks)