



UNIVERSITY OF SWAZILAND

2nd SEM. 2015/2016

SUPPLEMENTARY EXAMINATION PAPER

**PROGRAMME: B.Sc. ANIMAL SCIENCE YEAR 3 / B.Sc. ANIMAL SCIENCE
(DAIRY) YEAR 3**

COURSE CODE: AS 308

TITLE OF PAPER: RESEARCH METHODS

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN GRANTED BY
THE CHIEF INVIGILATOR**

QUESTION 1

(a) Explain the following terms, including an example for each:

- (i) Interaction (2)
- (ii) Factorial design (2)
- (iii) Experimental unit (2)
- (iv) Randomization (2)
- (v) Randomized complete block design (2)
- (vi) Quantitative data (2)
- (vii) Applied research (2)
- (viii) Extraneous variable (2)
- (ix) Research significance (2)
- (x) Purposive random sampling (2)

(b) Explain, including examples, the meaning and significance of the problem statement in research (5)

(25 Marks)

QUESTION 2

Discuss, including an illustration, the activities that form part of a research process.

(25 Marks)

QUESTION 3

Discuss the various sampling methods used in research.

(25 Marks)

QUESTION 4

Discuss, including examples, the various types of numbers and variables found in research

(25 Marks)

QUESTION 5

Based on your knowledge of how to write a research proposal, write comprehensively a typical **Materials and Methods** section of a research project with the following topic:

“Effects of Pre- and Post-partum Dietary *Leucaena leucocephala* Leaf Meal Supplementation on Growth Performance and Milk Yield in Saanen Goats and Weaning Weights and Mortalities in their Kids”

Hint: The Materials and Methods section is written in the future tense in the research proposal

(25 Marks)