



UNIVERSITY OF SWAZILAND
SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME: **BACHELOR OF SCIENCE IN ANIMAL
SCIENCE II**

COURSE CODE: **APH 204**

TITLE OF PAPER: **INTRODUCTION TO ANIMAL SCIENCE**

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

INSTRUCTIONS: **ANSWER ANY FOUR (4) QUESTIONS.**

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

QUESTION 1

Discuss the differences in livestock productivity between pastoralism and modern ranching. (25 marks)

QUESTION 2

Production characteristics of Zebu type cattle and European cattle breeds are important in beef production in the tropics. Using specific breeds of the *Bos Taurus* and *Bos indicus* explain their importance to beef production. (25 marks)

QUESTION 3

Agro-industrial by products are important beef resources in this country. Discuss these byproducts, their nutritive value and use in the livestock industry. (25 marks)

QUESTION 4

- a) What are the advantages and disadvantages of artificial insemination. (15 marks)
- b) Why is artificial insemination not common in extensive livestock production systems? (10 marks)

QUESTION 5

Keeping records, selection and culling all lead to improvement in livestock production. Comment on the above statement. (25 marks)