



UNIVERSITY OF ESWATINI
RESIT EXAMINATION PAPER
(1ST SEMESTER- 2019/2020)

- PROGRAMME:** B. Sc. ANIMAL SCIENCE YEAR 3
B. Sc. ANIMAL SCIENCE (DAIRY OPTION) YEAR 3
B. Sc. AGRICULTURAL EDUCATION YEAR 3
- COURSE CODE:** ASC303
- TITLE OF PAPER:** NUTRITION, FEEDS AND FEEDING
- TIME ALLOWED:** TWO HOURS
- INSTRUCTIONS:** ANSWER ANY FOUR QUESTIONS

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

QUESTION 1

Using diagrams, illustrate the differences in the anatomies of the gastro-intestinal tract of a pig and cow. Further describe how the anatomies influence feeding and nutrient availability to these animals. (25 Marks)

QUESTION 2

Discuss how the central nervous system (CNS) affect voluntary feed intake (VFI) in non-ruminant animals. (25 Marks)

QUESTION 3

Describe **three** crop-residues and **two** agro-industrial by-products found in the Kingdom of Eswatini. In your description, indicate their potential use to support animal production. (25 Marks)

QUESTION 4

Discuss how chemical composition of feeds affect voluntary feed intake of ruminant animals. (25 Marks)

QUESTION 5

Discuss how the use of computer programs improves ration formulation and minimise impact of animal waste on the environment. (25 Marks)