

UNIVERSITY OF SWAZILAND

1st SEM. 2017/2018

RE-SIT EXAMINATION PAPER

PROGRAMME:

B.Sc. ANIMAL SCIENCE YEAR 3, B.Sc. ANIMAL SCIENCE

(DAIRY) YEAR 3, AND B.Sc. AGRIC. EDUCATION YEAR 3

COURSE CODE:

ASC 303

TITLE OF PAPER: NUTRITION, FEEDS AND FEEDING

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

Discuss minerals as essential nutrients for farm animals.

(25 Marks)

QUESTION 2

Discuss the use of digestibility trials, in sacco degradability and laboratory methods as techniques for measuring the digestibility of feeds for livestock (25 Marks)

QUESTION 3

Discuss, including illustrations, the anatomical and physiological differences and similarities between fore-gut fermenters and hind-gut fermenters. Further explain how hind-gut fermenters process feedstuffs of high fibre content. (25 Marks)

QUESTION 4

Define feed intake and factors affecting it in ruminants.

(25 Marks)

QUESTION 5

Discuss the utilization of fermentation stimulants and inhibitors in silage making.

(25 Marks)