



2nd SEM. 2017/2018

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: B.Sc. ANIMAL SCIENCE (DAIRY
OPTION) III**

COURSE CODE: ASD 303

TITLE OF PAPER: DAIRY PRODUCTION

TIME ALLOWED: TWO (2) HOURS

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

**THIS PAPER SHOULD NOT BE OPENED UNTIL THE CHIEF
INVIGILATOR HAS GRANTED PERMISSION.**

QUESTION 1

Milk is produced by mammals, however, not all the three groups of mammals have been developed for dairy production. Discuss these groups and justify why only one group has been developed for dairy production.

(25 Marks)

QUESTION 2

Discuss how the following affect milk yield and composition:

- a. Condition at calving and stage of lactation
- b. Health and oestrus
- c. Length of dry period

(12 marks)

(7 marks)

(6 marks)

QUESTION 3

Briefly discuss the three (3) main hormonal and non-hormonal manipulations of dairy animal performance. With justification, which manipulation would you advice small-scale dairy farmers to implement?

(25 marks)

QUESTION 4

Discuss the following traits of economic importance in dairy cattle:

- a. Service and inter-calving period
- b. Dry period

(15 marks)

(10 marks)

QUESTION 5

Write shorts notes on the following:

- a. Selecting replacement herd based on the udder
- b. Culling of dairy cattle
- c. Determinants of milk yield

(10 marks)

(10 marks)

(5 marks)