



**2<sup>nd</sup> SEM. 2015/2016**

**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 4 QUESTIONS.

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

**QUESTION 1**

Discuss the three different groups of mammals and explain why only one group has been developed for dairy production.

**(25 Marks)**

**QUESTION 2**

Discuss mammogenesis from foetus to adult lactating cow and explain how it is manipulated in dairy animals.

**(25 Marks)**

**QUESTION 3**

Write short notes on the following:

- a. Enhancement of dairy cow performance by exogenous growth hormone manipulation.
- b. Effect of stage of lactation on milk yield and composition.

**(13 Marks)**

**(12 Marks)**

**(25 Marks)**

**QUESTION 4**

The mammary system is responsible for milk production.

- a. Discuss the external and internal anatomy of the udder.
- b. Differentiate between the udder of a goat and cow.

**(15 Marks)**

**(10 Marks)**

**(25 Marks)**

**QUESTION 5**

Discuss lactation persistency and **FIVE** factors that affect lactation persistency.

**(25 Marks)**