



1ST SEM. 2005/2006

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN AGRICULTURE:
APH OPTION YEAR IV**

COURSE CODE: APH 403

TITLE OF PAPER: REPRODUCTIVE PHYSIOLOGY

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 parturition in the cow, the hormones involved in parturition, the organs that secrete these hormones and the functions of these hormones.

(25 marks)

QUESTION 2

Discuss semen collection in the bull using the two most popular methods, indicate two major differences in the ejaculate collected using these two methods.

(25 marks)

QUESTION 3

Define puberty in the male and female and what factors influence puberty and indicate changes associated with the onset of puberty.

(25 marks)

QUESTION 4

- a) What are the functions of the epididymis and what changes do sperm undergo as they pass through the epididymis?
- b) Describe the mechanisms involved in the transport of sperm out of the testicle.

(15 marks)

(10 marks)

QUESTION 5

Discuss the following events in the male reproduction.

- a) Testicular descent.
- b) Mammary gland development.

(15 marks)

(10 marks)