



1ST SEM. 2008/2009

PAGE 1 OF 2

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: BACHELOR OF SCIENCE IN ANIMAL
SCIENCE III**

COURSE CODE: APH 306

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

What is Spermatogenesis? Discuss the 3 phases of Spermatogenesis including cell types produced under each event and the hormonal control of this process.

(25 marks)

QUESTION 2

Artificial insemination is not commonly practised in beef cattle commercial ranches in both developed and developing countries. Why is this the case?

(25 marks)

QUESTION 3

Describe how bull semen is evaluated? Why is semen evaluation an important tool in farm animal reproduction?

(25 marks)

QUESTION 4

Describe the levels of the following hormones in the blood during the four stages of the estrous cycle: Follicle stimulating hormone, luteinising hormone, estrogen and progesterone. What are the functions and sources of these hormones at each stage of the cycle?

(25 marks)

QUESTION 5

Discuss parturition in the cow, events that occur before parturition, the hormones involved in parturition, the organs that secrete these hormones and the functions of these hormones.

(25 marks)