



1ST SEM. 2006/2007

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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

- a) Describe how bull semen is evaluated. Why is semen evaluation an important tool in farm animal reproduction? **(15 Marks)**
- b) Using a diagram show the hormonal control of spermatogenesis in the male. **(10 Marks)**

QUESTION 2

Diagram the oocyte and the tertiary follicle and briefly explain the function of each component. **(25 Marks)**

QUESTION 3

- a) Ovogenesis(oogenesis) is the formation and maturation of the female gamete. Discuss this process in farm animals during the fetal period and after puberty. **(15 Marks)**
- b) Describe four characteristics of the scrotum that act in thermoregulation of the testicle. **(10 Marks)**

QUESTION 4

Discuss 5 factors that influence the postpartum interval to first estrus in farm animals. **(25 Marks)**

QUESTION 5

What are the components of the male reproductive capacity? How are these components affected by other factors? **(25 Marks)**