



2008/2009

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UNIVERSITY OF SWAZILAND
SUPPLEMENTARY 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.

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GRANTED BY THE CHIEF INVIGILATOR**

QUESTION 1

Oogenesis is the formation and maturation of the female gamete.” Discuss this process in farm animals during the foetal period and after puberty.
(25 marks)

QUESTION 2

- a) Thermoregulation is a critical process for spermatogenesis. Why?
(5 marks)
- b) Discuss thermoregulation in the bull testicle, include testicular structures and mechanisms involved in this process. (20 marks)

QUESTION 3

Define puberty in both the male and the female. (6 marks)

What changes are associated with puberty and what is responsible for these changes in both male and female? (19 marks)

QUESTION 4

- a) Discuss fertilization and the mechanism(s) that prevent polyspermy.
(15 marks)
- b) What is the “Blood-Testis barrier”? (5 marks)
Why is it important in reproduction in the male? (5 marks)

QUESTION 5

- a) Why is pregnancy diagnosis important in farm animals? (6 marks)
- b) Discuss the different methods of pregnancy diagnosis in cattle.
Which method is commonly used and why? (14 marks)
- c) Name 2 endocrine glands and 3 exocrine glands and their products.
(5 marks)