



1ST SEM. 2009/2010

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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 (4 QUESTIONS)

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN
GRANTED BY THE CHIEF INVIGILATOR.**

QUESTION 1

Discuss the importance of oestrus synchronization in beef cattle management. Describe how prostaglandin is used in oestrus synchronization, how it works and how it can be used to synchronize a beef herd.

(25 marks)

QUESTION 2

Discuss the following events in the male and female reproduction.

- a) fertilization (15 marks)
- b) thermoregulation in the testicle. (10 marks)

QUESTION 3

Explain the mechanism of action of both protein and steroid hormones.

(25 marks)

QUESTION 4

Draw a labelled diagram of the follicle and the oocyte and explain the functions of major components of the follicle and oocyte.

(25 marks)

QUESTION 5

What are the components of the male reproductive capacity? Discuss how these components are affected by other factors.

(25 marks)