



1ST SEM. 2012/2013

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: AS 307

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

Define spermatogenesis and discuss its 3 phases of spermatogenesis including cell types produced in each phase and the hormones involved.

(25 marks)

QUESTION 2

Define puberty in both males and females and explain the changes and the hormones involved.

(25 marks)

QUESTION 3

- a) Describe how bull semen is evaluated and explain why it is an important tool in farm animal reproduction. (10 marks)
- b) Discuss oogenesis in farm animals during foetal period and after puberty. (15 marks)

QUESTION 4

Discuss reproductive records that should be kept for each female in the beef herd and indicate the importance of these records are in herd management.

(25 marks)

QUESTION 5

Explain how the hypothalamus, anterior pituitary gland and the gonads communicate in controlling reproduction in males and females?

(25 marks)