



UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

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

COURSE CODE: APH 306

TITLE OF PAPER: REPRODUCTION PHYSIOLOGY

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS.

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GRANTED BY THE INVIGILATOR**

QUESTION 1

How does the hypothalamus, anterior pituitary gland, and the gonads communicate in controlling reproduction in the cow? (25 marks)

QUESTION 2

- a) Define puberty in both the male and female. (10 marks)
- b) Discuss the factors that affect puberty. (15 marks)

QUESTION 3

In both male and female what organs secrete the following hormones, what are the main functions of these hormones and what chemical class do these hormone belong? Gonadotropin releasing Hormone, Luteinising hormone, Follicle Stimulating hormone, testosterone and estradiol. (25 marks)

QUESTION 4

Define fertilization. What are the steps in the process of fertilization? (25 marks)

QUESTION 5

Discuss the following events in the male and female reproduction.

- a) Testicular descent. (10 marks)
- b) Management techniques to shorten postpartum interval. (15 marks)