



UNIVERSITY OF SWAZILAND
(1ST SEMESTER-2017/2018)
MAIN EXAMINATION PAPER

PROGRAMME: **B. Sc. Animal Science Year 3**
 B. Sc. Animal Science Dairy Year 3

COURSE CODE: **AS 307**

TITLE OF PAPER: **REPRODUCTIVE PHYSIOLOGY**

TIME ALLOWED: **TWO HOURS**

INSTRUCTIONS: **ANSWER ANY FOUR QUESTIONS**

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

QUESTION 1

Describe the components of the male reproductive capacity including how these components are affected by other factors.

(25 Marks)

QUESTION 2

- a) Why is pregnancy diagnosis important in farm animals? **(6 Marks)**
- b) Discuss different methods of pregnancy diagnosis in cattle and explain which methods is commonly used and why? **(19 Marks)**

QUESTION 3

- a) Define puberty in both the male and the female. **(6 Marks)**
- b) Discuss changes that are associated with puberty, including hormones responsible for these changes in both male and female. **(19 Marks)**

QUESTION 4

Discuss the following events in the male and female reproduction.

- a) Thermoregulation in the testicle. **(10 Marks)**
- b) Mammary gland development. **(10 Marks)**
- c) Movement of the oocyte to the site of fertilization. **(5 Marks)**

QUESTION 5

Artificial insemination is not commonly practised in commercial beef cattle ranches in both developed and developing countries. Discuss reasons why this is case? **(25 Marks)**