

# UNIVERSITY OF ESWATINI 1<sup>ST</sup> SEMESTER 2018 / 19 FINAL EXAMINATION PAPER

PROGRAMME:

BSc. IN ANIMAL SCIENCE III, BSc. IN ANIMAL SCIENCE (

DAIRY OPTION III)

**COURSE CODE:** 

**ASC 307** 

TITLE OF PAPER:

REPRODUCTIVE PHYSIOLOGY

TIME ALLOWED:

TWO (2) HOURS

**INSTRUCTIONS:** 

ANSWER ANY FOUR (4) QUESTIONS

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## **QUESTION 1**

- a) Discuss the three (3) methods of semen collection in bulls.(15 Marks)
- b) Describe briefly the mechanisms of scrotal thermoregulation. (10 Marks)

# **QUESTION 2**

Write short notes on the following:

- a) Blood testis barrier (6 marks)
- b) Maternal recognition of pregnancy in cattle (6 marks)
- c) Pseudopregnancy in farm animals (6 marks)
- d) Factors affecting puberty in cattle (7 marks)

#### **QUESTION 3**

- a) Describe the process of folliculogenesis during fetal development and after puberty, including the hormonal control. (15 Marks)
- b) Discuss the advantages and disadvantages of artificial insemination in a commercial dairy enterprise. (10 Marks)

## **QUESTION 4**

- a) Describe the process of fertilization in the cattle. (15 marks)
- b) Describe the mechanisms responsible for milk ejection in cattle. (10 Marks)

#### **QUESTION 5**

- a) Describe the three (3) stages of parturition in cattle including hormonal control. (15 marks)
- b) Discuss the causes of anestrus in farm animals. (10 Marks)