



**1<sup>ST</sup> SEM. 2014/2015**

**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMME: BSc. IN ANIMAL SCIENCE III: BSc. IN ANIMAL SCIENCE(DAIRY OPTION) 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 the three phases of spermatogenesis including the hormones that control this process. **(25 Marks)**

**QUESTION 2**

Parturition in the cow is divided into 3 stages. Briefly describe the events that occur prior to onset of parturition in the cow, the 3 stages of parturition and the hormones involved. **(25 Marks)**

**QUESTION 3**

a) Discuss evaluation of semen in bulls. **(25 Marks)**

**QUESTION 4**

a) Describe the functions of the epididymis and specifically mention the parts of the epididymis and their functions. **(15 Marks)**

b) Discuss testicular descent in the male. **(10 Marks)**

**QUESTION 5**

Describe how the hypothalamus, anterior pituitary gland and the gonads communicate in controlling reproduction in the male and the female. **(25 Marks)**