1ST SEM. 2011/2012

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY 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

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QUESTION 1

Describe the mechanism of action of both protein and steroid hormones.

(25 marks)

QUESTION 2

a) what are the two major factors involved in thermoregulation in the testicle?

(10 marks)

b) Describe the two maturation processes that sperm undergo in order to be able to fertilize the ovum. Where do these processes occur?

(15 marks)

QUESTION 3

Explain the source, functions, and chemical nature of gonadotropin releasing hormone, luteinising hormone, follicle stimulating hormone testosterone, estradiol and relaxin. (25 marks)

QUESTION 4

Draw a diagram of the follicle and the oocyte and explain the functions of their major components.

(25 marks)

QUESTION 5

a) Discuss the management techniques to reduce the interval to first postpartum oestrus in the cow.

(15 marks)

b) Discuss the breeding management of the bull.

(10 marks)