

1ST SEM. 2011/2012

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UNIVERSITY OF SWAZILAND

FINAL 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

What are the components of the male reproductive capacity? Discuss how these components are affected by other factors.

(25 marks)

QUESTION 2

a) Discuss the different methods of pregnancy diagnosis in cattle. Which method is commonly used and why?

(15 marks)

b) What mechanisms are involved in the transport of spermatozoa out of the testicle?

(10 marks)

QUESTION 3

Parturition in the cow is divided into three 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)

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(10 marks)

QUESTION 4

Discuss the following events in the male and female Reproduction.

| (a) Mammary gland development. | (10 marks) |
|--|------------|
| (b) Testicular descent in the male. | (10 marks) |
| (c) Changes associated with puberty in the male. | (5 marks) |

QUESTION 5

prevent polyspermy.

| a) Describe the key consideration a semen collection facility. | when constructing | (15 marks) |
|--|-------------------|------------|
| b) Discuss fertilization and the me | echanism(s) that | |