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UNIVERSITY OF SWAZILAND

1ST SEM. 2016/2017

FINAL 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

- a) Describe the level, functions, and sources of the following hormones in the blood during the oesrous cycle: follicle stimulating hormone, luteinising hormone, oestrogen and progesterone.

 (15 Marks)
- b) Discuss testicular descent in the male.

(10 Marks)

QUESTION 2

 a) Describe the changes that spermatozoa undergo as they pass through the epididymis and specifically highlight where these changes occur.

(15 Marks)

b) Discuss the mechanisms involved in the movement of the ovum after ovulation to the site of fertilisation. (10 Marks)

QUESTION 3

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

QUESTION 4

Discuss how the hypothalamus, anterior pituitary gland and the gonads communicate in controlling reproduction in both the cow and the bull. (25 Marks)

QUESTION 5

- a) Discuss the management techniques to reduce the interval from parturition to first postpartum oestrus in the sow and cow. (15 Marks)
- b) Describe how a bull is managed during the breeding season.

(10 Marks)