



1st SEM. 2009/2010

UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

PROGRAMME: B. SC. ANIMAL SCIENCE IV

COURSE CODE: APH 403

TITLE OF PAPER: DAIRY PRODUCTION

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY 4 QUESTIONS.

**THIS PAPER MAY NOT BE OPENED UNTIL THE CHIEF
INVIGILATOR HAS GRANTED PERMISSION.**

QUESTION 1

Discuss the physiological reasons why cows should not be frightened during milking.

(25 Marks)

QUESTION 2

Compare and contrast an invasive dairy cow performance manipulation strategy and a non- invasive manipulation strategy.

(25 Marks)

QUESTION 3

Describe the technology of animal cloning and briefly discuss its merits and demerits in dairy production

(25 Marks)

QUESTION 4

Briefly discuss the roles of the following hormones in milk production:

- a. Growth hormone (5 Marks)
- b. Corticosteroids (5 Marks)
- c. Progesterone (5 Marks)
- d. Oxytocin (5 Marks)
- e. Epinephrine (5 Marks)

QUESTION 5

Write short notes about the following:

- a) ICC scores (4 Marks)
- b) Modern biotechnology and Dairy production (6 Marks)
- c) Embryo transfer (6 Marks)
- d) Chimeric animals (4 Marks)
- e) Transgenic animals (5 Marks)