



2nd SEM. 2005/2006

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME : B.SC. IN AGRICULTURE (APH-OPTION)
YEAR V**

COURSE CODE: : APH 504

TITLE OF PAPER : ANIMAL HEALTH

TIME ALLOWED : TWO (2) HOURS

INSTRUCTIONS : ANSWER ANY FOUR QUESTIONS

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN
GRANTED BY THE CHIEF INVIGILATOR**

QUESTION ONE

- a. Give an account of the behaviour and effect of pathogenic bacteria that have entered into the body of a farm animal. (5 Marks)
- b. Using examples of botulism, black quarter and brucellosis describe:
 - i. how bacterial diseases spread among cattle. (10 Marks)
 - ii. the routine control measures farmers should apply to control bacterial diseases in Southern Africa. (10 marks)

QUESTION TWO

Describe the cause, transmission and control of bovine mastitis on a large dairy farm. (25 Marks)

QUESTION THREE

Describe the life cycle of the strongyle nematodes of sheep and indicate the behaviour of the third stage larvae in the environment, the migrating larvae and the adult worms in the body of sheep during the wet hot season, cold dry season and hot dry season in Southern Africa. (25 Marks)

QUESTION FOUR

- a. Give an account of the life cycle followed by each of the one-host, two-host and three-host types of hard ticks and indicate in each case the causal agent (s) and the tick stage (s) that could transmit the causal agent (s). (15 Marks)
- b. Describe the life cycle of the blood parasite *Babesia bigemina* and indicate how it causes the disease Bovine babesiosis (red water) in cattle. (10 Marks)

QUESTION FIVE

- a. Describe how the Tsetse fly as a vector of bovine trypanosomiasis (Nagana) is controlled. (20 Marks)
- b. Give an account of the economical importance of the Tsetse fly and bovine trypanosomiasis in Southern Africa. (5 Marks)

QUESTION SIX

- a. Describe the cause, the spread and clinical signs of goat mange as found in Southern Africa. (10 Marks)
- b. Describe the measures to be used to control goat mange in Southern Africa. (10 Marks)
- c. Explain the economic importance of goat mange in Southern Africa. (5 Marks)