



2nd SEMESTER 2006/2007

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**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

PROGRAMME : **BACHELOR OF SCIENCE IN**
AGRICULTURE (: **APH OPTION) YEAR V**

COURSE CODE : **APH 504**

TITLE OF PAPER : **ANIMAL HEALTH**

TIME ALLOWED : **TWO HOURS**

INSTRUCTIONS : **ANSWER ANY FOUR QUESTIONS**

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GRANTED BY THE CHIEF INVIGILATOR**

QUESTION ONE

- a. Name the routes by which bacteria gain entrance into the bodies of farm animals and then describe the effect of these bacteria in the bodies in order for them to cause disease. (10 Marks)
- b. Describe the general control measures to be applied in controlling the occurrence of bacterial diseases among farm animals. (15 Marks)

QUESTION TWO

- a. Give an account of the life cycle followed by each of the three types of hard ticks and indicate the stage (s) that could transmit the causal agent (s) in each case. (15 Marks)
- b. Describe the life cycle of the rickettsial parasite *Anaplasma marginale* and indicate how it causes the disease anaplasmosis (gall sickness) in cattle. (10 Marks)

QUESTION THREE

- a. Describe the life cycle of the coccidium *Eimeria tenella* in chicks and indicate its transmission and how it causes the disease coccidiosis in these chicks. (15 Marks)
- b. Give an account of the routine measures applied to control the spread of poultry coccidiosis on a large broiler farm. (10 Marks)

QUESTION FOUR

- a. Describe the life cycle of strongyle nematodes of cattle indicating the behaviour of the third stage larvae in the environment, the migrating larvae and the adult worms during the different seasons and reproductive cycle of cattle in Swaziland. (15 Marks)
- b. Describe how the infestation due to strongyle nematodes in cattle would be controlled. (10 Marks)

QUESTION FIVE

- a. Name the insects responsible for the Blowfly Strike (Calliphorine Myiasis) in sheep. (5 Marks)
- b. Describe how the Blowfly Strike occurs. (10 Marks)
- c. Give an account of the measures to be applied by a sheep farmer to control the Blowfly Strike on his sheep farm. (10 Marks)

QUESTION SIX

- a. Describe the transmission of the Trypanosomes responsible for the disease bovine trypanosomiasis and indicate how these protozoa cause the disease. (15 Marks)
- b. Give an account on how the disease trypanosomiasis could be controlled. (10 Marks)