UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME   :   DIPLOMA IN AGRICULTURE YEAR II AND
                             AGRICULTURAL EDUCATION YEAR II

COURSE CODE: :   APH 204

TITLE OF PAPER   :   INTRODUCTION TO ANIMAL HEALTH AND
                             HYGIENE

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

Describe the measures to be applied to control common bacterial diseases on a large commercial cattle ranch.   (25 Marks)

QUESTION TWO

Describe how the disease condition mastitis is spread and controlled among cows in a large milking herd in Southern Africa.   (25 Marks)

QUESTION THREE

Describe the routine measures you would apply to control the spread of poultry diseases from a hatchery to poultry farms that obtain the day old chicks from this hatchery.
                                                                              (25 Marks)

QUESTION FOUR

   a. You have carried out a clinical examination of a sheep weighing 60 kg and have come to a tentative diagnosis that it could be infested with round worms. Describe how you would go about confirming your tentative diagnosis.   (5 Marks)

   b. After confirming that the sheep is infested with roundworms, you have decided that you will use Cevamac containing 10,000 ug per ml of the active ingredient Ivermectin at a dosage of 200 ug per kg of body weight of the sheep. Calculate, showing all your work, how many ml of the Cevamac you will give the sheep.
                                                                              (20 Marks)

QUESTION FIVE

   a. Describe how the three-host tick *Rhipicephalus appendiculatus* (the brown ear tick) transmits the protozoan blood parasite *Theileria parva parva* that causes East Coast Fever in cattle.   (10 Marks)

   a. On a cattle ranch, a newly constructed dip tank needs to be calibrated to 15000 litres capacity. Describe how you would go about calibrating this dip tank.
                                                                              (15 Marks)

QUESTION SIX

Give an account of the reasons why diseases among livestock must be controlled in Southern Africa.   (25 Marks)