



2ND SEM. 2004/2005

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UNIVERSITY OF SWAZILAND

FINAL EXAMINATION PAPER

**PROGRAMME: DIPLOMA IN AGRICULTURE YEAR 2
DIPLOMA IN AGRICULTURAL EDUCATION YEAR 2**

COURSE CODE: APH 204 ✓

TITLE OF PAPER: INTRODUCTION TO ANIMAL HEALTH AND HYGIENE

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 how each of the following diseases is transmitted among cattle in Southern Africa.
 - i. Red water (bovine babesiosis)
 - ii. Gall sickness (anaplasmosis)
 - iii. Heart water (Cowdriosis) 10 Marks

- b. Describe the general routine measures to be applied to control the occurrence of the tick borne diseases Red water, Gall sickness and Heart water on a large commercial cattle ranch in Southern Africa. 15 Marks

QUESTION 2

- a. Describe the circumstances under which the disease condition botulism can occur among cattle in Southern Africa. 15 Marks

- b. Describe the control measures to be applied to control the disease condition botulism on a commercial ranch in Southern Africa. 10 Marks

QUESTION 3

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

QUESTION 4

- a. Give an account of the economic importance of the parasitic infection caused by the roundworm *Ascaris suum* in pig production. 10 Marks

- b. Describe the routine management measures a commercial pig farmer should apply to control then infection caused by the round worm *Ascaris suum*. 15 Marks

QUESTION 5

- a. Describe the cause, transmission and control of blackleg (quarter evil) in cattle in Southern Africa. 15 Marks

- b. Indicate the economic importance of blackleg in Southern Africa. 10 Marks

QUESTION 6

- a. Describe the life cycle of the liver fluke *Fasciola gigantica* on a sheep farm in Southern Africa. 15 Marks

- b. Devise the routine measures to be used to control the liver fluke infection on a sheep farm in Southern Africa. 10 Marks