



1ST SEM. 2005/6

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**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

**PROGRAMME : DIPLOMA (AG., AG.ED, HE
AND HEE) YEAR III**

COURSE CODE : APH 302

**TITLE OF PAPER : NON-RUMINANT ANIMAL
PRODUCTION**

TIME ALLOWED : 2 HOURS

**INSTRUCTIONS : ANSWER FOUR (4) QUESTIONS,
AT LEAST ONE (1) FROM EACH
SECTION**

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

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POULTRY SECTION**QUESTION 1**

- i) What are the functions of feathers, and how do you induce moulting?
- ii) Describe muscles and skeleton in birds.
- iii) What do you understand by homotherm and endotherms?
- iv) What is the range of body temperature in birds and what temperature become lethal?
- v) How is respiration accomplished in chickens?
- vi) Outline the sequence of egg laying patterns in layers.
- vii) Give five advantages of keeping poultry.
- viii) Describe commercial classification of poultry.
- ix) Describe the external and internal qualities of eggs?
- x) List the endocrine glands and parts of the oviduct in chickens
- xi) How do you measure performance in layers?

(25 Marks)

QUESTION 2

- a) Discuss the conditions and management of eggs in an incubator for successful hatching. (15 Marks)
- b) Describe the factors that affect the performance of brooding chicks. (10 Marks)

PIGS SECTION**QUESTION 3**

- a) What are the problems of weaning and how do we wean piglets? (10 Marks)
- b) Describe pig products and how do we market meat? (15 Marks)

QUESTION 4

How do you manage pregnancy, pre-farrowing, farrowing, lactation and piglets in pigs' production? (25 Marks)

RABBITS SECTION**QUESTION 5**

- a) Discuss the breeds and classification of rabbits. (10 Marks)
- b) Outline the importance of rabbit farming? (15 Marks)

QUESTION 6

- a) Describe mating, kindling, sexing, low receptivity and re-breeding in rabbits. (15 Marks)
- b) What are the management systems in rabbits? (10 Marks)