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**UNIVERSITY OF SWAZILAND**

**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMME: BSC. IN AGRICULTURAL EDUCATION IV  
BSC. IN ANIMAL SCIENCE IV**

**COURSE CODE:                   APH 408**

**TITLE OF PAPER: POULTRY PRODUCTION**

**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**

Indigenous chickens are available in almost every homestead in Swaziland and are an important source of protein, however their productivity is very low. Discuss different ways that can be employed to improve their productivity.

(25 marks)

**Question 2**

Mr. Mabuza has placed an order for day old chicks at National chicks hatchery. He is due to receive these day old chicks in three weeks time. Discuss the preparations he has to carry out to receive and to brood these day old chicks.

(25 marks)

**Question 3**

What causes the following during incubation?

- a) Clear eggs (8 marks)
- b) Air cell too small (6 marks)
- c) Closed eyes (8 marks)
- d) Chicks piping too early (3 marks)

**Question 4**

Describe the following poultry diseases including symptoms, treatment and control:

- a) Fowl pox
- b) Newcastle disease

(25 marks)

**Question 5**

How do you manage fertile eggs in an incubator.

(25 marks)