



1<sup>ST</sup> SEM. 2011/2012

Page 1 of 2

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER

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

COURSE CODE: APH/AS 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**

By the time a fertile egg is laid, it would have reached the gastrula stage of development. Discuss the developmental changes that occur during incubation until the chick hatches on day 21.

**(25 marks)**

**Question 2**

Describe seven antinutritive factors found in poultry feed and how these could be alleviated.

**(25 marks)**

**Question 3**

What causes the following?

- a) Broken or eaten eggs **(5 marks)**
- b) Yolkless eggs **(3 marks)**
- c) Small number of eggs **(5 marks)**
- d) Small sized eggs **(5 marks)**
- e) Poor egg shell **(7 marks)**

**Question 4**

Describe the different systems of managing poultry.

**(25 marks)**

**Question 5**

- a) Draw a labelled diagram of an egg. **(10 marks)**
- b) Discuss the components of an egg that help protect the inner contents of an egg from bacterial attack. **(15 marks)**

