



**1<sup>ST</sup> SEM. 2018/2019**

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**UNIVERSITY OF ESWATINI**

**RESIT EXAMINATION PAPER**

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

**COURSE CODE: 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**

Describe the following poultry diseases including clinical signs, treatment and control:

- a) Avian influenza
- b) Newcastle disease

**(25 marks)**

**Question 2**

- a) Draw a labeled structure of an egg.
- b) Describe how the inner contents of an egg are protected from bacterial attack.

**(10 marks)**

**(15 marks)**

**Question 3**

What causes the following during incubation?

- a) Eggs exploding
- b) Tray not uniform in hatch or chick quality
- c) Chicks too small

**(8 marks)**

**(10 marks)**

**(7 marks)**

**Question 4**

Discuss the preparations for receiving and brooding day old chicks.

**(25 marks)**

**Question 5**

a) Using the Pearson square method, formulate an indigenous poultry ration containing 20% crude protein using marula seed cake (47% CP) and Maize (9% CP). **(15 Marks)**

b) Verify if the feed does meet the crude protein requirement of the indigenous chickens.

**(10 Marks)**