



1<sup>ST</sup> SEM. 2017/2018

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UNIVERSITY OF SWAZILAND

SUPPLEMENTARY/RE-SIT EXAMINATION PAPER

PROGRAMME: BSC. AGRICULTURAL EDUCATION IV  
BSC. 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**

Mr. Dlamini has been keeping few indigenous chickens to supplement his family with meat. This year he discovered that indigenous chickens are on high demand and he got himself a tender to supply the local supermarket with indigenous chicken meat. In order to produce at a commercial scale, he then bought an incubator so that he can incubate many eggs at once. As a poultry specialist, please advise Mr. Dlamini how he should manage his eggs during incubation until they hatch.

(25 marks)

**Question 2**

Discuss the handling of fresh eggs.

(25 marks)

**Question 3**

a) Draw a labeled diagram of a hen egg.

(10 marks)

b) Discuss how egg contents are protected from bacterial attack.

(15 marks)

**Question 4**

What causes the following in chickens?

a) Cock laying eggs

(2 marks)

b) Yolkless eggs

(3 marks)

c) Blood stains on eggs

(2 marks)

d) Meat spots

(3 mark)

e) Broken or eaten eggs

(5 marks)

f) Small size eggs

(3 marks)

g) Poor shells

(7 marks)

**Question 5**

As a hatchery manager at National chicks, you observe a drastic drop in percentage hatchability in the recent batch of eggs from 85% to 45%. Discuss how you would go about determining the root cause of the problem.

(25 marks)