

1ST SEM. 2009/2010

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UNIVERSITY OF SWAZILAND

FINAL 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

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Question 1

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%. This is a huge blow to the company. Discuss how you would go about determining the root cause of the problem.

(25 marks)

Question 2

Discuss the management of adult layers including routine management.

(25 marks)

Question 3

- a) Draw a labeled diagram of the digestive system of a chicken. (10 marks)
- b) Describe the digestion of the feed 'laying mash' by layers. (15 marks)

Question 4

What causes the following in chickens?

a) Cock laying eggs	(1 mark)
b) Yolkless eggs	(3 mark)
c) Blood stains on eggs	(3 marks)
d) Meat spots on eggs	(1 mark)
e) Broken or eaten eggs	(5 marks)
f) Small number of eggs	(5 marks)
g) Poor shells	(7 marks)

Question 5

Formulate a layer ration using yellow maize and soyabean meal supplemented with 5% fish meal, 5% vitamin and mineral premix and 0.3% salt.

Nutrient composition of the ingredients:

Ingredient	Energy (MJ/kg ME)	Protein (g/kg)	Calcium (g/kg)	
Yellow maize	13.4	100	0.3	
Soyabean meal	14	400	3.5	
Fish meal	12.9	600	79.0	
Vit/min premix	_	-	-	
Limestone	-	-	337	
Layer nutrient requirement				
Energy	Protein	Calcium		
(MJ/kg ME	(g/kg)	(g/kg)		
11.1	160	30		

(25 marks)