



1ST SEM. 2005/6

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UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER

PROGRAMME : **B.Sc (AG.ED, AEM
AND APH) YEAR V**

COURSE CODE : **APH 502**

TITLE OF PAPER : **POULTRY PRODUCTION**

TIME ALLOWED : **2 HOURS**

INSTRUCTIONS : **ANSWER ANY FOUR (4) QUESTIONS**

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GRANTED BY THE CHIEF INVIGILATOR**

QUESTION 1

The formation of an egg is both structural and hormonal and somehow defects occur.

Discuss. (25 Marks)

QUESTION 2

a) The abandoned government hatchery at Emfunbaneni, Mpsi Farm has just been revitalized. As an expert provide the new management team with a practical guide for successful incubation of fertile eggs. (10 Marks)

b) If ten thousand (10,000) eggs were set into the incubator, 94.3% of them were fertile, and 7,830 eggs hatched into chicks, but 10% of them were abnormal, calculate the following:
i. number of infertile eggs?
ii. percentage hatchability?
iii. number of abnormal chicks?
iv. number of chicks that are females.
v. amount realized if the males sold for E3.75/bird (15 Marks)

QUESTION 3

a) A hatchery operator produces 'on site' hatchable eggs and observed a consistently low fertility and high embryonic mortality. What are the possible problems with his source of eggs? Outline the major embryonic mortality stages and the causes. (10 Marks)

b) Describe the observations and possible causes of the poor hatchability? (15 Marks)

QUESTION 4

a) The quality of meat is partly on the handling prior to slaughter. Outline in details the different stages and processing of poultry. (15 Marks)

b) A member of parliament who suddenly got a huge sum of money intends to invest on poultry production. Proffer first hand advice on poultry management systems and housing. (10 Marks)

QUESTION 5

Discuss the cause, transmission, clinical signs, diagnosis and treatment of chronic respiratory disease, infectious coryza and Newcastle diseases in poultry.

(25 Marks)

QUESTION 6

a) Formulate 24% and 21% crude protein diets for the broiler starter and finisher, respectively using maize (10% CP) and groundnut cake (45% CP). (15 Marks)

b) If a feedmiller is to compound 3 and 5 tonnes of the finisher and starter rations, respectively with the maize costing E4.50/kg and GNC E6.80/kg, calculate:

- i) the quantity of maize and GNC required.
- ii) the total amount needed to purchase the ingredients.
- iii) if the ingredient purchase had 15% discount, what will be the receipt price? (10 Marks)