



**UNIVERSITY OF SWAZILAND**

**1<sup>st</sup> SEM. 2015/2016**

**SUPPLEMENTARY EXAMINATION PAPER**

**PROGRAMME: B.Sc. ANIMAL SCIENCE YEAR 4 AND B.Sc. AGRIC.  
EDUCATION YEAR 4**

**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

Why are poultry reared by humankind? And how is poultry rearing economically, nutritionally and otherwise advantageous, especially to smallholder farmers, relative to other livestock production enterprises? Discuss answers to these questions (25 Marks)

### QUESTION 2

About 70 percent of Swaziland's rural households keep indigenous poultry. Yet the productivity of these birds is extremely poor. Discuss the status of this poultry sector and how it can be improved in order to ultimately change the socio-economic circumstances of rural smallholder poultry farmers and the economy of Swaziland. (25 Marks)

### QUESTION 3

Calcium and phosphorus are some of the critically important nutrients in poultry production. Discuss the nutrition of these two minerals in poultry, their interaction with other nutrients, and elaborate on their availability in commonly used feedstuffs for poultry. (25 Marks)

### QUESTION 4

What is the name of the phenomenon represented by the following equation? Discuss this phenomenon, including its importance in poultry production and the various factors affecting it:

$$X = \text{feed consumption} \div \text{liveweight gain} \quad (25 \text{ Marks})$$

### QUESTION 5

Illustratively discuss the functional anatomy of the digestive system of poultry.

(25 Marks)