

**THE NATIONAL UNIVERSITY OF LESOTHO**  
**FACULTY OF AGRICULTURE**  
**B.Sc. AGRIC ANIMAL SCIENCE OPTION EXAMINATION**  
**ANS3507: POULTRY PRODUCTION**

**JUNE 2023**

**MARKS: 100**

**TIME: 3 HOURS**

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**Instructions: Answer All Questions**

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### **Question 1**

As an Animal Scientist in the making, how would you convince someone who wants to engage in animal production to choose poultry over livestock? (10)

### **Question 2**

What characteristics led to the popularity of the Boschveld breed amongst the smallholder farmers in Lesotho? (10)

### **Question 3**

Infundibulum, Magnum, Isthmus and Uterus form part of the oviduct. Mention the two major functions of each in relation to the role played during egg formation. (8)

### **Question 4**

Write short notes on the following parts of an egg:

- a) Shell membranes    b) Vitelline membrane    c) Cuticle (6)

### **Question 5**

Explain how these factors influence/affect the quality of eggshell:

- a) Age of the bird    b) Environmental temperature    c) Time of oviposition (6)

### **Question 6**

Discuss the role of four main elements needed for optimum hatching of fertile egg to in artificial incubation and provide optimum range for each. (12)

### **Question 7**

Discuss the importance of light management tool in pullet management. (12)

### **Question 8**

- a) What is feed conversion ratio? (2)  
b) A broiler consumed 4 Kg of feed to produce 2.5 Kg of meat in a 6 week feeding trial. Calculate the FCR. (6)

### **Question 9**

Biosecurity refers to procedures used to prevent the introduction and spread of disease-causing organisms in poultry flocks. Which are the pre-disposing factors associated with transmission or spreading of disease causing organisms? (8)

### **Question 10**

- a) Explain three broad classifications of poultry diseases and give an example for each. (6)  
b) Discuss Coccidiosis as one of the common disease affecting poultry. (14)