

**NATIONAL UNIVERSITY OF LESOTHO**

**FACULTY OF AGRICULTURE**

**DEPARTMENT OF ANIMAL SCIENCE**

**SECOND SEMESTER EXAMINATION 2022/23 SESSION**

**ANS2510: ANIMAL WELFARE, ETHOLOGY AND HUSBANDRY**

**JUNE 2023**

**MARKS: 100**

**TIME: 3 HOURS**

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**INSTRUCTIONS:**

**Answer all questions**

**Start every question on a new page**

**Number your questions correctly**

**Write neatly**

### **Question 1**

Describe the term animal welfare. [8 marks]

### **Question 2**

Explain the common management practices that can cause animal suffering. [10 marks]

### **Question 3**

Assume you went to observe the NUL animal farm condition and you found that the welfare of animals was compromised. Explain how you would advise the Farm Manager on the Five Freedoms in Animal Welfare. [10 marks]

### **Question 4**

Explain what you understand by:

- a) Animal-based indicators. [6 marks]
- b) Resource-based indicators. [6 marks]
- c) Management-based indicators. [6 marks]

### **Question 5**

Explain the welfare problems faced by farm animals in Lesotho. [10 marks]

### **Question 6**

a) Describe the following terms as used in animal welfare, ethology and husbandry:

- i. Animal ethology. [2 marks]
- ii. Animal husbandry. [4 marks]

b) List the signs of a healthy animal. [6 marks]

### **Question 7**

Explain the following signs of a normal animal:

- a) Alertness
- b) Curiosity
- c) Range of activities
- d) Interaction with members of the herd or flock or group
- e) Interaction with human beings
- f) Play. [10 marks]

### **Question 8**

In principles of animal health, both zoonotic and metabolic diseases are considered. Describe the following diseases:

- a) Anthrax (aetiology, clinical signs, transmission and control methods)  
[20 marks]
- b) Bloat (causes, clinical signs, and control methods). [12 marks]