



**2<sup>nd</sup> SEM. 2015/2016**

## **UNIVERSITY OF SWAZILAND**

### **FINAL EXAMINATION PAPER**

**PROGRAMME: B.Sc. ANIMAL SCIENCE AND ANIMAL  
SCIENCE DAIRY OPTION IV**

**COURSE CODE: AS 406**

**TITLE OF PAPER: LIVESTOCK AND THE ENVIRONMENT**

**TIME ALLOWED: TWO (2) HOURS**

**INSTRUCTIONS: ANSWER ANY 4 QUESTIONS.**

**DO NOT OPEN THIS PAPER UNTIL PERMISSION HAS BEEN  
GRANTED BY THE CHIEF INVIGILATOR**

**QUESTION 1**

The livestock sector is among the top two or three most significant contributors to the most serious environmental conditions. Discuss. (25 marks)

**QUESTION 2**

Write short notes on the following:

a. The indirect channels through which carbon is released into the atmosphere (15 marks)

b. The common environmental risks and opportunities associated with poultry production based on the land resource. (10 marks)

(25 Marks)

**QUESTION 3**

Discuss the effect of climate change on livestock in terms of feed and water availability. (25 Marks)

**QUESTION 4**

Discuss the role of livestock on biodiversity loss. (25 marks)

**QUESTION 5**

Discuss **SIX** points on how the mitigation of greenhouse gas (GHG) emissions in the livestock sector can be achieved. (25 marks)