



2nd SEM. 2011/2012

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**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

**PROGRAMME: BACHELOR OF SCIENCE IN
ANIMAL SCIENCE YEAR 4 AND
BACHELOR OF SCIENCE IN
ANIMAL SCIENCE (DAIRY OPTION)
YEAR 4**

COURSE CODE: AS 406

TITLE OF PAPER: LIVESTOCK AND THE ENVIRONEMENT

TIME ALLOWED: TWO (2) HOURS

**INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS, AT
LEAST ONE(1) QUESTION FROM EACH
SECTION**

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

SECTION A**QUESTION 1**

Describe the mitigation and adaptation strategies to climate change that can be used by the livestock sector. (25 marks)

QUESTION 2

According to the IPCC (2007), the direct contribution of livestock to atmospheric carbon is small, but there is a significant indirect contribution. Explain. (25 marks)

SECTION B**QUESTION 3**

Discuss the environmental impact of extensive versus intensive systems of livestock production. (25 marks)

QUESTION 4

Explain how you would design and manage runoff control system for a feedlot or an abattoir. (25 marks)

SECTION C**QUESTION 5**

Discuss four different ways in which livestock may cause biodiversity losses.

(25 marks)

QUESTION 6

Write short notes on:

- a) Dimensions of biodiversity (9 marks)
- b) Conservation of biodiversity. (9 marks)
- c) Biodiversity erosion (7 marks)