

2nd SEM. 2013/2014



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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 ENVIRONMENT

TIME ALLOWED: TWO (2) HOURS

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

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GRANTED BY THE CHIEF INVIGILATOR.**

SECTION A

QUESTION 1

Describe industrial livestock production systems and their impact on the environment. (25 Marks)

QUESTION 2

Discuss the role of livestock production in water depletion and pollution. (25 Marks)

QUESTION 3

Waste management technologies need to improve to negate the environmental impacts of the increase in industrial systems. Describe how you would design a waste management facility, include where necessary information and expertise you would need while undertaking this task. (25 Marks)

SECTION B

QUESTION 4

- a) Discuss four national biodiversity strategies that have implication for livestock production in Swaziland. (20 Marks)
- b) Write notes about dimensions of biodiversity. (5 Marks)

QUESTION 5

Discuss policy challenges for livestock production and conservation of biodiversity. (25 Marks)

QUESTION 6

In a study conducted in 2000, it was found that livestock were major producers of green house gases in Swaziland. Discuss the production of the major green house gases by livestock and explain two mitigation strategies that can be employed. (25 Marks)