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UNIVERSITY OF ESWATINI
FINAL EXAMINATION PAPER
2nd SEMESTER 2018/2019

PROGRAMME: B. Sc. ANIMAL SCIENCE YEAR IV
B. Sc. ANIMAL SCIENCE (DAIRY OPTION) IV

COURSE CODE: ASC 213/AS 406

TITLE OF PAPER: LIVESTOCK AND THE ENVIRONMENT

TIME ALLOWED: TWO (2) HOURS

INSTRUCTIONS: ANSWER ANY FOUR (4) QUESTIONS

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

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QUESTION 1

Characterise livestock grazing systems and highlight the negative environmental effects including policies and institutions designed to reduce the environmental impacts of this system.

(25 Marks)

QUESTION 2

Discuss major environmental concerns when establishing a feedlot. Explain the environmental risks and possible legal complaints that would arise if the structure does not follow Environmental Protection Agency guidelines.

(25 Marks)

QUESTION 3

Discuss water requirements for livestock including livestock's role in water depletion and pollution.

(25 Marks)

QUESTION 4

Industrial livestock production systems are important in global food security; however they generate large volume of waste. Discuss the environmental effects of this system and strategies used to mitigate the negative effects on the environment.

(25 Marks)

QUESTION 5

(a) What causes odour and where does odour occur in a feedlot.

(7 Marks)

(b) Discuss the different types of odour control agents.

(12 Marks)

(c) Describe the three different ways of controlling dust in feedlot pens?

(6 Marks)