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1ST SEM. 2016/2017

**UNIVERSITY OF SWAZILAND
FINAL EXAMINATION PAPER**

PROGRAMME: B.Sc. ANIMAL SCIENCE II
B.Sc. ANIMAL SCIENCE (DAIRY
OPTION) II

COURSE CODE: ASC213

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**

QUESTION 1

Land-use changes, fossil fuel and nitrogen use in livestock production contribute to climate change. Discuss.

(25 marks)

QUESTION 2

Write short notes on the following:

- a. Mitigating water pollution caused by the use of nutrients in livestock production.
- b. Conservation of biodiversity in Swaziland

(18 Marks)

(7 Marks)

(25 Marks)

QUESTION 3

Livestock production systems lead to biodiversity loss. Discuss.

(25 Marks)

QUESTION 4

Briefly discuss the following:

- a. The current efforts to conserve and manage biodiversity in Swaziland
- b. The principal objectives and main contents of the National Biodiversity Strategy and Action Plan (NBSAP)

(15 marks)

(10 marks)

(25 marks)

QUESTION 5

Discuss the environmental risks and opportunities associated with dairy production at the UNISWA dairy farm.

(25 Marks)