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1ST SEM. 2018/2019

UNIVERSITY OF ESWATINI

FINAL EXAMINATION PAPER

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

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QUESTION 1

Define the following terms used in livestock and the environment:

- a. Grazing systems (4 Marks)
 - b. Biodiversity (3 Marks)
 - c. *Ex-situ* conservation (3 Marks)
 - d. Genetic diversity (3 Marks)
 - e. Species diversity (3 Marks)
 - f. Ecosystem diversity (3 Marks)
 - g. Climate change (3 Marks)
 - h. Carbon cycle (3 Marks)
- (25 Marks)

QUESTION 2

The direct contribution of livestock to the atmospheric carbon is small, but there is a significant indirect contribution. Explain.

(25 Marks)

QUESTION 3

Discuss the environmental impact of grazing versus industrial production systems.

(25 Marks)

QUESTION 4

Explain five (5) livestock activities that may cause biodiversity losses

(25 Marks)

QUESTION 5

Write short notes on the following:

- a. Reducing nutrient pollution hence water pollution (15 Marks)
 - b. Dimensions of biodiversity (10 Marks)
- (25 Marks)