



1st SEM. 2020/2021

UNIVERSITY OF ESWATINI

SPECIAL ASSESSMENT PAPER

PROGRAMME: B.Sc. ANIMAL SCIENCE YEAR 2
B.Sc. ANIMAL SCIENCE (DAIRY
OPTION) YEAR 2

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

Livestock grazing systems contribute to a number of environmental challenges and countries have to come up with mitigation strategies, policies and technologies to mitigate the negative effects of livestock grazing systems. Highlight the negative effects of livestock grazing systems and some possible solutions to reduce their impact on the resource base.

(25 Marks)

QUESTION 2

The livestock industry contributes to global warming through the emission of greenhouse gases (GHGs). Discuss the greenhouse gases generated by the livestock industry including the sources of these GHGs.

(25 Marks)

QUESTION 3

Discuss water requirements by livestock, water sources for livestock and how livestock use the water they consume.

(25 Marks)

QUESTION 4

- a) Describe why mixed farming is a favourite system for agriculturalists and environmentalists.
- b) Discuss the different ways of controlling dust in a feedlot.

(10 Marks)

(15 Marks)

QUESTION 5

Define global climate change. Why is the world concerned about climate change?

(25 Marks)