

THE NATIONAL UNIVERSITY OF LESOTHO

FACULTY OF AGRICULTURE

DEPARTMENT OF ANIMAL SCIENCE

ANS4502: PIG PRODUCTION

FIRST SEMESTER FINAL EXAMINATION

JANUARY 2024

MARKS: 100

TIME: 3 HOURS

INSTRUCTION: Answer All Questions

Question 1

- a) Mr Thulo wants to venture into agri-business and he decided to be pork producer. Explain why would you encourage him to venture into this industry? (10)
- b) Explain how extensive pig production system is different from semi-intensive one (10)

Question 2

- a) Discuss sexual behaviour the sow would exhibit during the heat period (10)
- b) Explain the role of oxytocin in fertilization (2)
- c) As an Artificial Insemination (AI) trainer, explain the important you would tell your trainees to consider about handling and usage of frozen semen (8)

Question 3

- a) Outline how you would discover that a sow is about to farrow (10)
- b) Describe problems associated with piglets that might cause difficult farrowing (4)
- c) Explain why you would advise a farmer to castrate piglets before three weeks of age (6)

Question 4

- a) Write brief notes on each of the following genetic abnormalities of pigs:
 - i. Atresia Ani (5)
 - ii. Hermaphroditism (5)
- b) Distinguish between creep diet and weaner diet of pigs (10)

Question 5

- a) What are the causes and symptoms of the following:
 - i. Swine influenza as a viral disease (5)
 - ii. Swine dysentery as a bacterial disease (5)

b) Explain how sticking and chill storage in pig slaughtering process are handled (10)