

NATIONAL UNIVERSITY OF LESOTHO
DEPARTMENT OF ANIMAL SCIENCE
ANS 3503: PRINCIPLES OF ANIMAL HEALTH
FIRST SEMESTER FINAL EXAMINATION

JANUARY 2024

MARKS 100

TIME: 3 HOURS

INSTRUCTIONS

- **Answer ALL questions**
 - **Answer each question on a SEPARATE page**
 - **You can start with ANY question, but make sure you number your answers correctly**
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Question 1

Name the causative agents of each of the following bacterial diseases and describe how each of the causal agents is transmitted

- a. Anthrax
- b. Foot-rot
- c. Black quarter
- d. Salmonellosis (20)

Question 2

- a. Outline the clinical signs of a Lumpy Skin Disease (5)
- b. Copy and complete the table below (15)

Disease	Transmission	Signs and Symptoms	Prevention and Control
Foot and Mouth			

Question 3

- a. With the aid of a diagram, discuss the life cycle of a tapeworm (15)
- b. Discuss the general treatment of the internal parasites (5)

Question 4

- a. Write short notes on the following factors affecting the life cycle stages of roundworms:
 - i) Peri-parturient rise (PPR) (5)
 - ii) Hypobiosis (4)
 - iii) Climate (3)
- b. Explain the economic importance of internal parasites in farm animals (8)

Question 5

- a. External parasites limit production in sheep and goats and result in economic loss.
Discuss the effects of the external parasites on sheep and goats (10)
- b. Discuss the methods of applying acaricides when treating the external parasites (10)