



"Investing in Africa's future"

**COLLEGE OF HEALTH AGRICULTURE AND NATURAL
SCIENCES**

**NAAS127:MICROBIOLOGY AND PARASITOLOGY
END OF SECOND SEMESTER EXAMINATION
APRIL 2026
LECTURER: DR. D. CHIKWANDA
DURATION: 3 HRS**

INSTRUCTIONS

Answer all questions in Section A and any **three** from Section B

Section A carries **40 marks** and each question in section B carries **20 marks**.

SECTION A: Answer **all** questions.

Question 1

- a. Define the following terms:
- i. Protozoa [2]
 - ii. Flagella [2]
 - iii. Bacilli [2]
 - iv. Trematodes [2]
 - v. Vector [2]
- b. Briefly explain the scope of microbiology and its importance in animal health. [6]
- c. Differentiate between eukaryotic and prokaryotic cell structures. [6]
- d. Describe the principle and procedure of Gram-staining. [8]
- e. What are the main differences between bacteria and archaea? [4]
- f. Highlight the three methods of laboratory diagnosis of parasites. [6]
- [40]**

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SECTION B: Answer any **three** questions from this section.

Question 2

Discuss the history of microbiology, highlighting key discoveries that shaped the field.

[20]

Question 3

- a. Describe the main ports of entry of internal parasites into the animal's body. [10]
- b. Outline the different methods used to measure microbial growth. [10]

Question 4

Describe the major groups of parasitic insects, highlighting their impact on animal health. [20]

Question 5

Explain the structure, life cycle and economic importance of ticks.

[20]

Question 6

a) Outline the classification of viruses.

[10]

b) Elaborate on the different classes of parasites that affect livestock.

[10]

END OF QUESTION PAPER!!!

