



"Investing in Africa's future"

**COLLEGE OF HEALTH AGRICULTURE AND NATURAL
SCIENCES**

**NAAS417:DAIRY MANAGEMENT
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. State any three major contributions of the dairy industry to the economy of any African country of your choice. [3]
 - b. List **any** four essential records kept on a dairy farm. [4]
 - c. Define artificial insemination, highlighting any two advantages of its use in dairy farming. [3]
 - d. State any four common dairy breeds found in Zimbabwe. [4]
 - e. Outline two functions of the Zimbabwe Association of Dairy Farmers (ZADF).
[4]
 - f. Mention any three nutritional requirements of a lactating cow. [6]
 - g. Identify two metabolic diseases affecting dairy cattle. [4]
 - h. Describe the role of somatic cell count (SCC) in milk testing. [4]
 - i. Differentiate free-stall housing from tie-stall housing. [4]
 - j. State two benefits of pasteurisation of milk. [4]
- [40]**

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

Question 2

Explore the various ways of processing milk, highlighting the packaging and storage conditions required for a long shelf life of the resultant milk products. **[20]**

Question 3

Discuss the importance of record keeping in dairy farm management, highlighting the different types of record keeping systems. [20]

Question 4

Using an illustration, explore the relationships among milk yield, dry matter intake and liveweight in dairy cows from early lactation to the dry cow phase. [20]

Question 5

- a. Evaluate the economics of milk production, highlighting input costs and returns.

[10]

- b. Explore the benefits of precision livestock feeding systems in dairy production.

[10]

Question 6

Discuss the following types of milking parlours, highlighting the advantages and disadvantages of each.

- a) rotary milking parlour [10]

- b) Abreast milking parlour. [10]

END OF QUESTION PAPER!!!

