



COLLEGE OF HEALTH, AGRICULTURE & NATURAL SCIENCES

NAAS 407: DAIRY PRODUCTION

END OF SECOND SEMESTER FINAL EXAMINATIONS

APRIL 2023

LECTURER: MR. P. B. MUVHURINGI

DURATION: 3 HOURS

Instructions

Answer one question. Each question carries 100 marks

Question 1

- i. What are the challenges facing the dairy industry in Zimbabwe? [25]
- ii. Describe any four dairy production systems. [25]
- iii. Write short notes on metabolic disorders in dairy production. [25]
- iv. Describe the characteristics of a dairy breed of your choice. [25]

Question 2

- a. What are the merits and demerits of the following feeding systems in dairy cattle production?
 - i. Conventional feeding system (Feeding for production) [20]
 - ii. Challenge feeding (Lead feeding) [20]
 - iii. Flat rate feeding (Level feeding) [20]
- b. Explain the following in milk quality analysis;
 - i. Organoleptic tests [20]
 - ii. Methelene blue test [20]

Question 3

- a. Which breed of dairy cattle will you recommend for a large scale commercial farmer in Marondera? In your answer indicate the reasons for choosing that breed. [30]
- b. What are the advantages and disadvantages of using the following feeding schemes?
 - i. Budget feeding [10]
 - ii. Group feeding [10]
- c. Describe the following in milk quality analysis;
 - i. Strip cup [10]
 - ii. Resazurin test [10]
 - iii. Somatic cell Counts [10]
 - iv. Gerber test [10]
 - v. Total bacterial Counts [10]

End of Examination Paper