



COLLEGE OF HEALTH, AGRICULTURE & NATURAL SCIENCES

NAAS 417/ AAS 307: DAIRY MANAGEMENT

FIRST SEMESTER FINAL EXAMINATIONS SESSION

APRIL 2023

LECTURER: MR. P. B. MUVHURINGI

DURATION: 3 Hours

**Instructions**

Answer one question. Each question carries 100 marks

### Question 1

- i. Select a feeding system in dairy production that you will recommend to a smallholder farmer and state the reasons for choosing that feeding system. [25]
- ii. Compare and contrast a jersey breed and a red dane breed [25]
- iii. What will you consider when siting a dairy farm [25]
- iv. Illustrate the calving interval of a dairy cow [10]
- v. Suggest and recommend a farmer on how to feed the transition dairy cow [15]

### Question 2

- a. Which dairy parlour will you choose for a smallholder dairy farmer? Explain why you will recommend that dairy parlour ? [25]
- b. Explain the causes of milk contamination and suggest ways of reducing milk contamination on a dairy farm [25]
- c. Give advice on the role of the following in galactopoiesis
  - i. Hormones [13]
  - ii. Milking frequency [12]
  - iii. Milking interval [12]
- a. Explain somatic cell count in milk quality analysis [13]

### Question 3

- a. What are the merits and demerits of the following feeding systems in dairy cattle production
  - ii. Conventional feeding system (Feeding for production) [15]
  - iii. Challenge feeding (Lead feeding) [15]
  - iv. Flat rate feeding (Level feeding) [15]
  - v. Budget feeding [15]
  - vi. Group feeding [15]
- b. Which breed of dairy cattle will you recommend for a small-scale communal farmer in Chiweshe. In you answer indicate the reasons for choosing that breed. [25]