

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**  
**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**

**AGA 420**

**Department of Animal Science**

**BSc Agricultural Science Part VI Examination**

**BSc Animal Health and Production Extension Part III**

**Dairy production**

**3 HOURS (100 Marks)**

 **MAR 2023**

**INSTRUCTIONS:** Answer any **FOUR** questions. Each question carries **25 marks**

---

1. Describe the trends in dairy cattle industry at global level and in Zimbabwe indicating the challenges the industry faces. **[25 marks]**
2. Describe dairy herd health management that ensures optimal production of the dairy herd. **[25 marks]**
3. Discuss one dairy calf and heifer rearing system that will optimize production on a farm in Zimbabwe. **[25 marks]**
4. a) Discuss the different measures of longevity in dairy cows. **[15 marks]**  
b) Discuss the factors that affect longevity of dairy cows. **[10 marks]**
5. Describe the desirable conformation and selection of dairy breeding females in order to improve dairy herd performance. **[25 marks]**
6. Discuss the following dairy production systems:  
a) Intensive production system **[10 marks]**  
b) Mixed crop-livestock production system **[10 marks]**  
c) Extensive production system **[5 marks]**

**End of paper**