

**BINDURA UNIVERSITY OF SCIENCE EDUCATION**

**FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE**

**MFS 513**

**Department of Agricultural Economics, Education and Extension  
MSc in Food Security and Sustainable Agriculture Part I Examination  
Sustainable Livestock Production**

**3 HOURS (100 Marks)**

**INSTRUCTIONS TO CANDIDATE**

Answer question **ONE** from **SECTION A** and any **TWO** questions from **SECTION B**.

**SECTION A (COMPULSORY)**

1. a) Discuss the constraints to livestock production in Sub-Saharan Africa. **[25 marks]**  
b) Discuss the main causes of culling in communal beef herds and suggest ways in which involuntary culling can be reduced. **[25 marks]**

**SECTION B**

2. Discuss the drivers of biodiversity loss related to livestock production. **[25 marks]**
3. Discuss the inter-linkages between livestock production and climate change. In your discussion highlight the impacts of these inter-linkages on water resources and land use. **[25 marks]**
4. Mr. Chikaka is a struggling farmer who is thinking of establishing a dairy farm in Chiredzi on a piece of land that has been idle for over 20 years. He comes to you as a qualified agriculturist for advice on the establishment of the farm and breeds of cattle. Write an essay on the advice you would give to him. **[25 marks]**

**END OF PAPER**