## BINDURA UNIVERSITY OF SCIENCE EDUCATION

## FACULTY OF AGRICULTURE AND ENVIRONMENTAL SCIENCE

**AGA421** 

Department of Agricultural Science
Bachelor of Animal Science and Technology (Honours) Part III Examination
Beef and Rangeland Mangement

3 HOURS (100 Marks)

## **INSTRUCTIONS**

W 0CT 2023

Answer any FOUR questions. Each question carries 25 marks.

- 1. Discuss the role of Beef production as a way to improve food security in Zimbabwe. [25 marks]
- 2. Write notes on the characteristics of beef breeds that should consider when venturing into beef production in Zimbabwe: [25 marks]
- 3. Discuss the socio-economic factors affecting beef production in Zimbabwe.

[25 marks]

- 4. Write short notes on the importance of the following in livestock production:
  - a) Vaccination programme

[6 marks]

b) Castration, dehorning and ear notching

[6 marks]

c) Feed supplements for the beef herd.

[7 marks]

d) Natural mating versus artificial insemination.

[6 marks]

- 5. Discuss ways to improve rangelands in community shared lands. [25 marks]
- 6. Discuss the nutritional requirements of a steer and recommend to a farmer the sources of nutrients for the steer.

[25 marks]

**End of Exam Paper**