



GREAT ZIMBABWE UNIVERSITY

ROBERT MUGABE SCHOOL OF EDUCATION AND CULTURE

DEPARTMENT OF TECHNICAL EDUCATION

B.ED (SECONDARY) IN SERVICE HONOURS DEGREE PART 1 SEMESTER 2

ANIMAL PRODUCTION

TSAG 121-2

MONTH

NOVEMBER 2024

TIME

3 HOURS

MAIN PAPER

INSTRUCTIONS TO CANDIDATES

**Answer three questions only
All questions carry equal marks**

1. a) Compare and contrast breeding-in and buying-in production systems as options for a farmer venturing into beef production business. [6]
- b) i) Describe the 'green grass loss'. [4]
- ii) How can a farmer counteract the green grass loss concept? [2]
- c) Discuss the need for record keeping in beef production. [5]
- d) Discuss four factors which affect conception in cows. [8]

2. Examine the following management routines highlighting their importance:

- a) Castration. [5]
- b) Dosing. [5]
- c) Vaccination. [5]
- d) Dipping. [5]
- e) Breeding soundness examination. [5]

Q3. (a) Discuss five factors that affect success of summer fattening enterprises. [10]

(b) Describe how the following factors are used to classify beef carcasses.

i) Degree of flesh development [5]

ii) Sex [4]

© Explain any three challenges that a farmer practicing all-year-round mating is likely to face. [6]

4. a) Outline five traits of economic importance in beef animals. [5]

b) Using examples, differentiate between accounting records and management records. [6]

c) A farmer want to retain heifers from his herd for breeding. Advise the farmer on the qualities of the beef bull to use. [6]

(d). Explain how the nutritional status of a dairy cow at calving can affect its fertility [8]

5. a) Describe how out of hand sales operate. [4]

b) Describe the meaning of a hardy breed with reference to indigenous beef breeds. [4]

- c) Explain how complex ownership of cattle in the smallholder system affect decision making process when it comes to marketing of cattle. [4]
- d) Convince a farmer on benefits of using teaser bulls on a farm. [5]
- e) Discuss the benefits of using crossbred animals in beef production. [8]

END OF EXAMINATION.