



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATION

2023/2024 ACADEMIC YEAR

SECOND-YEAR SECOND SEMESTER

BACHELOR OF SCIENCE IN ECONOMICS AND

BACHELOR OF SCIENCE AGRI-BUSSINESS

COURSE CODE: ARE 2206-1

COURSE TITLE: PRINCIPLES OF ANIMAL PRODUCTION

DATE : 15TH APRIL,2024

TIME: 0830-1030HRS

INSTRUCTION TO CANDIDATES

Answer all questions

PRINCIPLES OF ANIMAL PRODUCTION

[120 Marks]

- 1 a) State the importance of record keeping in animal production **(5 Marks)**
b) State the importance of livestock production in Kenya **(5 Marks)**
c) Discuss factors limiting livestock production in Kenya **(10 Marks)**
- 2 a) List and state the unique characteristics of two exotic beef, two dairy goat and two rabbit breeds kept in Kenya **(6 Marks)**
b) Name five routine management practices done in ruminant animals and their importance **(4 Marks)**
c) Discuss any five traits in dairy cattle that are of economic importance in Kenya. **(10 Marks)**
- 3 a) Define the term Animal Ecology **(3 Marks)**
b) Discuss ecological factors affecting growth and development of animals **(7 Marks)**
c) Discuss the biosecurity practices done in chicken farms to prevent diseases **(10 Marks)**
- 4 a) Define the term agro-ecological zone **(3 Marks)**
b) Describe the agro-ecological zones in Kenya indicating the animals and vegetation most suited in each zone **(7 Marks)**
c) Discuss two (2) reproductive techniques used in breeding dairy cattle indicating their advantages and disadvantages **(10 Marks)**
- 5 a) Discuss the impact of climate change on livestock production and reproduction **(10 Marks)**
b) Briefly discuss the behavioral and physiological adaptations of animals that contribute to their survival and reproduction **(10 Marks)**
- 6 a) Discuss livestock production systems that are practised in Kenya, indicating their advantages and disadvantages **(20 Marks)**

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