

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE

ANSC 111: INTRODUCTION TO ANIMAL SCIENCE

STREAMS: BSC ANSC

TIME: 2 HOURS

DAY/DATE: MONDAY 16/12/2024

2.30 P.M – 4.30 P.M.

INSTRUCTIONS

- Answer ALL Questions in Section A and any TWO in Section B.

SECTION A: [30 MARKS]

1. a) Define the following terms: (3 marks)
 - i. Animal husbandry
 - ii. Animal science
 - iii. Domestication
2. Give an overview of the extensive livestock production system and outline its demerits. (5 marks)
3. List **two** challenges facing the dairy sector in Kenya. (2 marks)
4. Giving examples, differentiate between quantitative and qualitative traits in Animal Selection. (5 marks)
5. What is the role of animal production in food security of a given country? (5 marks)
6. Discuss the Dorper sheep breed in terms of meat production, feed efficiency, adaptability and maintenance requirements. (4 marks)
7. Highlight **four** methods used in animal selection. (4 marks)
8. State one advantage and disadvantage of the Jersey breed. (2 marks)

SECTION B [40 MARKS]

9. Describe **10** benefits of integrating crop and livestock farming systems for maximizing productivity. (20 marks)

10. Discuss the origin, coat colour, body size, and one advantage and disadvantage of the following cattle breeds:

- i. Boran (5 marks)
- ii. Ayrshire (5 marks)
- iii. Sahiwal (5 marks)
- iv. Guernsey (5 marks)

11. (a) Explain the roles and functions of the following hormones and indicate their secretory organ. (12 marks)

- i. Antidiuretic hormone
- ii. Luteinizing hormone
- iii. Follicle-stimulating hormone
- iv. Oxytocin
- v. Prolactin
- vi. Estrogen

(b) Discuss 4 traits that a farmer should consider when acquiring a dairy cow. (8 marks)
