



MACHAKOS UNIVERSITY

University Examinations for 2016/2017

SCHOOL OF AGRICULTURE AND NATURAL RESOURCES MANAGEMENT

DEPARTMENT OF AGRIBUSINESS AND TRADE

SECOND YEAR SECOND SEMESTER EXAMINATION FOR
BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT
BACHELOR OF EDUCATION

KRM 203: PRINCIPLES OF ANIMAL PRODUCTION

Date: 5/12/2016

Time: 2 HOURS

INSTRUCTIONS:

Answer Question One and Any Other Two Questions

1. (a) Explain four constraints that livestock production in Kenya experiences. (10 marks)
- (b) Explain how increased livestock production can contribute to food security (5 marks)
- (c) Explain the role livestock plays in sustainable agriculture. (5 marks)
- (d) Explain what the following terms mean:
 - i) undernutrition
 - ii) compensatory growth
 - iii) body condition
 - iv) phenotype
 - v) breed (10 marks)

- 2 (a) Explain the types of records which are important in livestock farming. (10marks)
- (b) Explain the characteristics considered when selecting dairy cows for high milk production (10 marks)
- 3 (a) Compare the transhumance and semi-intensive systems of livestock production. (10 marks)
- (b) Explain the environmental factors affecting livestock production in the two systems above. (10 marks)
- 4 (a) Explain the role of i) natural and ii) artificial selection in animal improvement. (10 marks)
- (b) Explain the mating systems used in livestock breeding. (10 marks)
5. Explain the major classes of nutrients essential in animal production, citing their functions, sources and major consequences of deficiency. (20 marks)