



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2018/2019

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN ANIMAL HEALTH AND PRODUCTION

KAS 201: ANIMAL PHYSIOLOGY III

DATE: Monday 19th November 2018

TIME: 8.00 a.m. – 10.00 a.m.

INSTRUCTIONS:

Answer **ALL** questions in Section A and any **TWO** questions in Section B. Within a Section **ALL** questions carry equal marks. Illustrate your answers with diagrams and give examples where appropriate.

Section A (40 marks) answer all the questions in this section

1. Explain the following processes:
 - (a) Lactation
 - (b) Neurosecretion (5 marks)
2. Outline functional forms of infertility. (5 marks)
3. Compare and contrast 2 aspects the physiology of nervous and endocrine systems. (5 marks)
4. Explain the process of maturation of spermatozoa. (5 marks)
5. Outline the effects of climate on lactation. (5 marks)
6. Describe the process of egg laying in poultry. (5 marks)
7. Discuss the functions of steroids produced in the animal body. (5 marks)
8. Outline the mechanisms of positive feedback. (5 marks)

Section B (30 marks)

9. Describe the physiology of the male reproductive system in cattle. (15 marks)
10. Discuss how low nutrition deficiencies affect reproductive performance in farm animals. (15 marks)
11. Describe how the following technologies can be used to improve productivity in farm animals:
 - (a) Artificial insemination
 - (b) Embryo transfer (15 marks)

INVOLVEMENT IN ANY EXAMINATION IRREGULARITY SHALL LEAD TO **DISCONTINUATION**