



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2018/2019

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

KAS 109: ANIMAL PHYSIOLOGY II

DATE: Monday, 1st April 2019

TIME: 8.00 a.m. - 10.00 a.m.

INSTRUCTIONS:

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

SECTION A (40 MARKS)

1. Outline the functions of the digestive system. (5 marks)
2. Explain the mechanism that controls digestion. (5 marks)
3. Explain the following physiological processes:
 - (a) Inspiration
 - (b) Expiration (5 marks)
4. Explain the phases of an electrocardiogram. (5 marks)
5. Outline the functions of the lymphatic system. (5 marks)
6. Explain the process of glomerular filtration. (5 marks)
7. Outline the characteristic features of an action potential. (5 marks)
8. Explain the phenomenon of insensible water loss from the body. (5 marks)

SECTION B: Answer any two questions in this section (30 marks)

9. Discuss the role of ruminal microbes. (15 marks)
10. Discuss the ways in which animals adapt to environmental changes. (15 marks)
11. Discuss the physiology of the male reproductive system in cattle. (15 marks)