



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2018/2019

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

KAS 210: CLINICAL PATHOLOGY

DATE: THURSDAY, 28TH MARCH, 2019

TIME: 11.00A.M. - 1.00P.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 and give examples where appropriate.

SECTION A (40 MARKS)

1. Describe the structure of the mammalian erythrocyte and state their differences with those of the avian. (5 marks)
2.
 - a. Outline the components of plasma
 - b. Differentiate plasma from serum. (5 marks)
3. Outline the principles that guide the amount of blood collected for laboratory analysis. (5 marks)
4. Explain the significance of juvenile forms of cells in circulation. (5 marks)
5. Explain the significance of blood biochemistry in clinical medicine? (5 marks)
6. Describe the procedure for measuring packed cell volume (PCV) (5 marks)
7. Explain the significance of presence of blood in urine. (5 marks)
8. Outline the procedure used to assay for total proteins. (5 marks)

SECTION B: ANSWER ANY TWO QUESTIONS. (30 marks)

9. Discuss the functions of leucocytes (15 marks)
10. Discuss three types of anticoagulants under the following headings:
- a. Mode of action
 - b. Advantages
 - c. Disadvantages
 - d. Uses

You may tabulate your answer (15 marks)

11. Describe the procedure for preparing a thin blood smear for diagnosis of blood parasites. (15 marks)