

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

**SECOND YEAR EXAMINATION FOR THE AWARD OF DIPLOMA IN ANIMAL
HEALTH AND PRODUCTION**

ANHE 0124: CLINICAL PATHOLOGY

STREAMS: DIP. ANHE (Y2S1)

TIME: 2 HOURS

DAY/DATE: TUESDAY 06/08/2019

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- **Answer ALL questions in section A and any TWO in section B (70 marks)**

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION (30 MARKS)

- Define the term anemia. (2 marks)
 - Explain the difference between regenerative and non-regenerative anemia. (2 marks)
 - List THREE major red blood cell indices used to characterize anemia. (3 marks)
- List FOUR conditions associated with;
 - Eosinophilia (2 marks)
 - Neutropenia (2 marks)
- List FOUR causes of severe hypoalbuminemia. (2 marks)
- Give THREE components of a complete routine Urinalysis. (3 marks)
- Differentiate between acidemia and acidosis. (2 marks)
 - Name FOUR primary types of acid-base imbalance. (2 marks)
- Briefly describe how a buffy coat smear is prepared. (5 marks)
- Describe the key laboratory findings of a cow infected with Babesiosis. (5 marks)

SECTION B: Answer any TWO questions in this section (40 marks)

8. (a) Briefly explain how damaged red blood cells are removed from circulation. (5 marks)
- (b) Discuss the aetiology of Haemolytic anaemia in animals. (15 marks)
9. (a) Describe the laboratory findings that suggest an infection with *Anaplasma sp.* In a cow. (8 marks)
- (b) Discuss the common liver function tests. (12 marks)
10. Write short notes on the physical examination of urine. (20 marks)
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