



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY
EXAMINATIONS 2018/2019 ACADEMIC
YEAR
SECOND YEAR SECOND SEMESTER**

**SCHOOL OF TOURISM AND NATURAL
RESOURCE MANAGEMENT
BACHELOR OF SCIENCE IN ANIMAL
HEALTH AND PRODUCTION**

COURSE CODE: AHP 2203

**COURSE TITLE: CLINICAL
PATHOLOGY**

DATE: 23RD APRIL 2019
0830 - 1130 HRS

TIME:

INSTRUCTIONS TO CANDIDATES

Attempt **ALL** questions

This paper consists of 2 printed pages. Please turn over

CLINICAL PATHOLOGY

1) a) Define the following terms:

- i. Poikilocytosis (1 Mark)
- ii. Anisocytosis (1 Mark)
- iii. Buffy coat (1 Mark)
- iv. Haematocrit (2 Marks)

b) List 5 types of erythrocytes inclusions. (5 Marks)

c) Describe briefly the advantages of hemoglobin being intracellular. (5 Marks)

d) Outline 5 clinical indicators of anaemia. (5 Marks)

2) a) List 5 characteristics of avian thrombocytes. (5 Marks)

b) Outline 5 roles of platelets in hemostasis. (5 Marks)

c) List the cytoplasmic changes that may occur in cases of toxemia in neutrophils.

(5 Marks)

d) Outline 5 functions of the kidneys.
(5 Marks)

(5

3) Describe the mechanism of erythrocytes destruction.
(20 Marks)

4) a) Describe bovine anaplasmosis under the following

i) Etiology

(2 Marks)

ii) Clinical pathology
(5 Marks)

(5

iii) Diagnosis

(3 Marks)

b) Describe the red blood cell indices.
(10 Marks)

(10

5) Explain the basis for liver function tests.
(20 Marks)

(20

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**BACHELOR OF SCIENCE IN ANIMAL
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COURSE CODE: AHP 2203**

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DATE:

TIME: 3 hours

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CLINICAL PATHOLOGY

1) a) Define the following terms:

i) Clinical pathology

(1 Mark)

- ii) Hematology (2 Marks)
- iii) Packed cell volume (2 Marks)
- b) List 5 types of body fluids examined during fluid analysis in clinical pathology. (5 Marks)
- c) Outline 3 parameters that can give an indication of systemic disease in fluid analysis. (5 Marks)
- d) List 5 clinical indicators of anaemia. (5 Marks)
- 2) a) List 5 advantages of hemoglobin being intracellular. (5 Marks)
- b) Describe briefly what happens in a severely diseased kidney. (5 Marks)
- c) Describe briefly the initiation of a hemostatic plug. (5 Marks)
- d) Describe briefly the importance of measurements of total serum protein and albumin. (5 Marks)
- 3) a) Describe the factors that affect function of the kidneys. (5 Marks)
- b) List five tests that can be used to test renal function. (5 Marks)
- c) Describe the clinical pathology picture in babesiosis. (5 Marks)
- d) Describe the clinical pathology picture in trypanosomiasis. (5 Marks)
- 4) a) Describe briefly the liver function tests. (5 Marks)
- b) Describe how bilirubin is metabolized until its excretion. (5 Marks)
- c) Describe inclusions of red blood cells. (10 Marks)

5) Describe the various parameters analyzed in a urine samples during urinalysis (20 marks)