



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

TIME: 0830 - 1130 HRS

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)
- 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)
 - iii) Diagnosis (3 Marks)
- b) Describe the red blood cell indices. (10 Marks)
- 5) Explain the basis for liver function tests. (20 Marks)

//END



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:

TIME: 3 hours

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) 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)