



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR
FOURTH-YEAR SECOND SEMESTER**

**SCHOOL OF NATURAL RESOURCES, TOURISM
AND HOSPITALITY**

**BACHELOR OF SCIENCE IN ANIMAL HEALTH
AND PRODUCTION**

COURSE CODE: AHP 4203-1

**COURSE TITLE: METABOLIC, NUTRITIONAL,
REPRODUCTIVE DISORDER**

DATE:

TIME: 3HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions

This paper consists of 3 printed pages. Please turn over

Question 1

Define the following terms (6 marks)

- (i) Fertility
- (ii) Infertility
- (iii) Sterility

Describe the causes of infertility in bulls (14 marks)

Question 2

Discuss bovine brucellosis under the following subheading

- (i) Aetiology (2 marks)
- (ii) Risk factors (3 marks)
- (iii) Clinical signs (7 marks)
- (iv) Diagnosis (4 marks)
- (v) Control (4 marks)

Question 3

Discuss the care and management of a cow during peuperium in order to reduce the interval between parturition to conception (20 marks)

Question 4

Discuss the care and management of neonates in cow during and immediately after birth (20 Marks)

Question 5

Describe pregnancy toxoemia in ewes under the following subheading

- (i) Epidemiology (3 Marks)
- (ii) Aetiology (1 Mark)
- (iii) Clinical signs (8 Marks)
- (iv) Clinical pathology (2 Marks)
- (v) Treatment (2 Marks)
- (vi) Control (4 Marks)

Question 6

a) Define the following terms while highlighting at least two (2) examples (12 marks)

- (i) Malnutrition
- (ii) Macro-minerals
- (iii) Micro-mineral
- (iv) Vitamin

b) Describe the role of Vitamin A in animal bodies (8 marks)