



MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS

2023/2024 ACADEMIC YEAR

FOURTH-YEAR SECOND SEMESTER

SCHOOL OF NATURAL RESOURCES,

ENVIRONMENTAL STUDIES & AGRICULTURE

BACHELOR OF SCIENCE IN ANIMAL HEALTH

AND PRODUCTION

COURSE CODE: AHP 4204-1

COURSE TITLE: METABOLIC & NUTRITIONAL

DISORDER

DATE:

TIME: 3HRS

INSTRUCTIONS TO CANDIDATES

- (i) *Attempt ALL the questions*
- (ii) *Label your answers clearly*
- (iii) *Don't mix up answers*
- (iv) *DO NOT WRITE anything on the question paper*

This paper consists of 2 printed pages. Please turn over

Question One

- a) Define the following terms **(6 marks)**
- (i) Metabolic diseases
 - (ii) Malnutrition
 - (iii) Macro-minerals
- b) Describe the treatment and control of downer cow syndrome in a dairy farm **(14 marks)**

Question Two

Discuss primary bloat in cattle, under the following subheading; aetiology, clinical, signs, treatment and prevention **(20 marks)**

Question Three

Discuss pregnancy toxemia in cattle, under the following subheading; aetiology, clinical, signs, treatment and prevention **(20 marks)**

Question Four

Discuss bovine lactation tetany in cattle under the following subheading; aetiology, clinical, signs, treatment and prevention **(20 marks)**

Question Five

Discuss vitamin A deficiency under the following subheading **(20 marks)**

- i) Aetiology
- ii) Role in the body
- iii) Clinical signs
- iv) Treatment and control

Question Six

- c) State the clinical signs of cobalt deficiency in domestic animals **(8 marks)**
- d) Describe any four (4) diseases associated with vitamin E and cobalt deficiencies in swine **(12 marks)**

||||End||||