



**KISII UNIVERSITY**  
**UNIVERSITY EXAMINATIONS**  
**SECOND YEAR EXAMINATION FOR THE AWARD OF THE**  
**DIPLOMA IN ANIMAL HEALTH /ANIMAL SCIENCE**  
**SECOND SEMESTER 2022/2023**  
**(SEPTEMBER - DECEMBER, 2022)**

**ANHE 0323: METABOLIC, NUTRITIONAL AND REPRODUCTIVE**  
**DISEASES/DISORDERS**

**STREAM: Y2 S2**

**TIME: 2 HOURS**

**DAY: TUESDAY, 3:00 P.M – 5:00 P.M**

**DATE: 20/12/2022**

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**INSTRUCTIONS:**

- 1. Do not write anything on this question paper.**
- 2. Answer ALL Questions in section A (Compulsory) and any other TWO Questions in section B.**

**SECTION A (40MARKS)**

1. Discuss iodine deficiency based on
  - a) Aetiology (2marks)
  - b) Clinical signs (4marks)
  - c) Treatment and prevention measures (4marks)
2. Discuss vitamin A deficiency based on
  - a) Aetiology (2marks)
  - b) Clinical signs (5marks)
  - c) Prevention and control (3marks)
3. Discuss prevention and control measures for pregnancy toxemia (10marks)
4. Discuss vitamin D deficiency based on
  - a) Aetiology (2marks)
  - b) Clinical signs (5marks)
  - c) Prevention and control (3marks)

## **SECTION B**

5. Discuss milk fever based on
  - a) Aetiology (2marks)
  - b) Clinical signs (5marks)
  - c) Diagnosis (2marks)
  - d) Treatment, control and prevention measures (6marks)
6. Discuss fat cow syndrome based on
  - a) Aetiology (2marks)
  - b) Clinical signs (6marks)
  - c) Diagnosis (2marks)
  - d) Prevention and control (4marks)
7. Discuss pregnancy toxemia of ewes and does based on
  - a) Aetiology (2marks)
  - b) Clinical signs (6marks)
  - c) Diagnosis (2marks)
  - d) Treatment (4marks)