



MAASAI MARA UNIVERSITY

**REGULAR UNIVERSITY EXAMINATIONS
2018/2019 ACADEMIC YEAR
THIRD YEAR FIRST SEMESTER**

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

COURSE CODE: AHP 3105

**COURSE TITLE: METABOLIC NUTRITIONAL
AND REPRODUCTIVE DISORDERS**

DATE: 10TH DECEMBER 2018

TIME: 1430 - 1630 HRS

INSTRUCTIONS TO CANDIDATES

Answer **ALL** questions

This paper consists of 2 printed pages. Please turn over

METABOLIC NUTRITIONAL AND REPRODUCTIVE DISORDERS [120 MARKS]

1. Discuss the aetiology, clinical signs, diagnosis and treatment of Milk Fever. **[20 Marks]**
2. Discuss ketosis, under the following: the aetiology, clinical signs, diagnosis, treatment and prevention. **[25 Marks]**
3. Give fifteen mineral elements required in the diet of cattle. **[15 marks]**
4. Describe 'White muscle disease' under the following: the aetiology, clinical signs, post mortem findings, treatment and prevention. **[25 Marks]**
5. a. Name the four fat soluble Vitamins. **[4 Marks]**
b. Give the water soluble Vitamins. **[2 Marks]**
c. Can cats survive on commercial dog food exclusively? Yes or No. **[1 Marks]**
d. Explain the reason for your answer in (5c) above. **[8 Marks]**
6. a. Name 5 viruses capable of causing congenital defect in animals. **[5 Marks]**
b. Describe 4 main principles of control and prevention of infectious diseases of newborn animals. **[4 Marks]**
c. Mastitis is less prevalent in jennies/mares relative to cows, True or False? **[1 Marks]**
d. Provide an explanation for your answer in 6c above. **[5 Marks]**
e. Name five functional causes of infertility in cows. **[5 Marks]**

//END

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1. Discuss water intoxication in calves, under the following:
aetiology, clinical signs, treatment and prevention.
[20 Marks]
2. Discuss bloat under the following: aetiology, clinical signs,
treatment and prevention. **[20 Marks]**
3. a. Give ten functions of Calcium. **[10 Marks]**
b. Give ten functions of Phosphorous. **[10 Marks]**
4. Describe congenital morphological causes of infertility in cows.
[20 Marks]
5. Brucellosis causes significant economic losses in livestock
production. Discuss Brucellosis, under the following: the aetiology,
transmission, clinical signs, diagnosis and control. **[20 Marks].**
6. As the Farm Manager of Githunguri Dairy Farm, describe the
strategies that you will use to control mastitis in cows. **[20 Marks]**