

UGANDA MARTYRS UNIVERSITY

FACULTY OF AGRICULTURE

BSC GENERAL AND ORGANIC AGRICULTURE YEAR 3

Supplementary / Special Examinations September 2015-2016

Exam: MODULE 11: Animal Health and Nutrition

Instructions:

- i. Attempt Four (4) Questions
- ii. Write clearly, number the questions appropriately on the answer booklet
- iii. Read and understand the instructions on the last page of the answer booklet
- iv. Do not write anything on a question paper

Section A

- 1a. Discuss five effects of diseases on animal production (10 marks)
- 1b. Explain any five Factors which pre disposes dairy animal to Mastitis (10 marks)
- 2a. African swine fever is a highly contagious fatal viral disease of pigs. List five prominent clinical signs (5 marks)
- 2b. Describe five ways how farmers can Control the occurrence of African swine fever on their pig farms (10 marks)
- 2c. Explain briefly the cause and clinical signs of piglet anemia (5 marks)
- 3a. Explain the pathogen vector relationship in the process of disease transmission process (4 marks)
- 3b. Explain 4 reasons why there are more livestock diseases in highly intensive management systems compared to extensive management systems (8 marks)
- 3c. Fowl typhoid and Pullorum disease are infections that affect the digestive system in commercial poultry. Name the causative agent of Fowl Typhoid and Pullorum disease. (2 marks)
- 3d. List 3 clinical signs of Fowl typhoid (3 marks)
- 3e. List 3 clinical signs of Pullorum disease (3 marks)
- 4a. As a Livestock health practitioner, describe a systematic approach you would take to approach an animal disease condition in the field (5 marks)
- 4b. How can fake and adulterated animal health inputs (Drugs, additives, Vaccines, acaricides) be minimized on the Ugandan market (5 marks)

4c. After your studies and you are hired as an advisor, discuss at least 5 general recommendations you would consider when designing animal health management plan on a dairy farm (10 marks)

ANIMAL NUTRITION

1a. Carbohydrates are the main source of energy for dairy cattle. Name three categories of carbohydrates (3 marks)

1b. List three methods of analysis of fibre content of a feed. (6 marks)

1c. Discuss three categories of forage protein based on degradation in the rumen of ruminant animals (9 marks)

1d. Name two classifications of vitamins. (2 marks)

2a. Distinguish between hay and silage (4 marks)

2b. Why is hay making rarely practiced in Uganda? (6 marks)

2c. Discuss the process of making good quality silage (10 marks)

3a. What is hydroponics fodder system (5 marks)

3b. List 5 benefits of hydroponics fodder system in dairy farming (5 marks)

3c. List 5 benefits of hydroponics fodder system in pig farming (5 marks)

3d. Briefly explain the factors that influence the amount of feed a chicken will consume? (5 marks)

4a. Name two types of feeds fed to commercial broiler poultry from day one till the end of fattening period (day 1- week 7-8) (4 marks)

4b. Discuss 4 ways how pig farmers can improve pig feed efficiency (8 marks)

4c. Explain the functions of the reticulo-rumen part of the digestive system of a dairy cow