

Uganda Martyrs University

Faculty of Agriculture

Final Examination 2021-2022

Bachelors of Science in Agriculture Year Two

Module: BSAG 2112: Animal Health and Nutrition

Time: 09:30 am – 12:30 pm

Date: Friday 05th August 2022

Instructions:

- ***Attempt only four questions choosing any two questions from section A and any two questions from section B. Begin each question on a new page***
 - ***Start every question on a new page***
 - ***Do not write on the question paper***
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SECTION A (ANIMAL HEALTH)

QUESTION 1

Write short notes on the following diseases emphasizing their economic importance to farmers

- (a) Brucellosis (5 marks).
- (b) African Swine fever (5 marks).
- (c) Bacterial mastitis (5 marks).
- (d) Foot and Mouth Disease (5 marks).
- (e) Rabies (5 marks)

QUESTION 2

Parasites are a menace to the livestock sector in Uganda

- (a) Giving relevant examples to the livestock sector, describe 5 types of parasites and 3 types of hosts (16 marks).
- (b) Explain the term zoonosis and give 3 classes of zoonoses with relevant examples (9 marks).

QUESTION 3

- (a) Explain what you understand by the term “triad of disease causation” (10 marks).

(b) With relevant disease examples, explain how climate/weather has influenced the temporal and spatial distribution of livestock diseases (15 marks).

QUESTION 4

(a) Explain the forms of mastitis elaborating on how each can be controlled (15 marks).

(b) Rabies is a zoonotic disease; using your understanding of the term zoonosis elaborate on its transmission cycle, the causative agent and the preventive measures (10 marks).

SECTION B (ANIMAL NUTRITION)

QUESTION 5

Using a table, compare digestion, absorption and utilization of feeds in a monogastric animal with that of a ruminant (25 marks).

QUESTION 6

(a) List any four breeds of pigs, stating any three morphological characteristics for each breed (8 marks)

(b) Give six reasons for adding non-nutritive feed additives in poultry feeds (7 marks)

(c) Describe the principle of:

(i) Ensiling (5 marks)

(ii) Hay making (5 marks)

QUESTION 7

(i) Define a ration as applied in animal nutrition (2 marks)

(ii) State the various principles governing livestock ration formulation (8 marks)

(iii) As a livestock feed manufacturer, describe any five ways of carrying out quality control in poultry feeds (10 marks).

(iv) Proteins form the most expensive part of cattle ration. List any 5 legumes that can be used as protein sources in cattle production (5 marks)

QUESTION 8

(a) Define a feeding standard in the context of animal nutrition (5 marks)

(b) Name and explain 5 conditions a ration must meet to be considered successful (10 marks)

(c) Explain 5 alternative feeding strategies for slaughter pigs (10 marks)