

**UGANDA MARTYRS**



**UNIVERSITY**

**NGETTA CAMPUS  
FACULTY OF AGRICULTURE**

**DIPLOMA IN ANIMAL PRODUCTION MANEGEMENT**

**DAPM 2108: INTRODUCTION TO ANIMAL MICROBIOLOGY AND  
PARASITOLOGY**

**FINAL ASSESSMENT**

**ACADEMIC YEAR 2023/2024 SEMESTER ONE**

**DAPM I**

**DATE: 6<sup>th</sup>/DEC/2023**

**TIME ALLOWED:3 HOURS (2:00pm-5:00pm)**

**INSTRUCTIONS:**

- *Attempt any four questions of choice*
  - *All questions carry equal marks*
  - *Start every question on a new page*
  - *Do not write anything on the question paper*
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**Question 1:**

- a) A number of microorganisms are responsible for causing diseases in humans and his animals. In a tabular form; list the various disease causative agents giving two example of the diseases caused by each (10 marks)
- b) Describe the various morphological shapes of bacteria (5 marks)
- c) Describe the available ways/means we can defend ourselves as well as our animals from diseases caused by microorganisms (10 marks)

**Question 2:**

- a) Give the general classification of parasites (5 marks)
- b) Describe the harmful effects parasites have on their hosts with examples (10 marks)
- c) How can parasites be controlled generally (10 marks)

**Question 3:**

- a) Give the broad classification of helminths (6 marks)
- b) Describe the morphological difference between the various helminths (12 marks)
- c) Explain how helminths burden can be controlled? (7 marks)

**Question 4:**

- a) As a student of DAPM I, Provide broad classification of the following Protozoa: Coccidia, Trypanosome and Theileria. (6 marks)
- b) Describe the life cycles of Coccidia, Trypanosomes and Theileria (12 marks).
- c) How would you treat and control trypanosomiasis (Nagana) and theileriosis? (7 marks)

**Question 5:**

- a) Write brief notes on the following arthropods; giving classification, morphological appearance and lifecycle of each: (25marks)
  - i. Tsetse fly (Glossina) (10 marks)
  - ii. Fleas (10 marks)
  - iii. Lice (5 marks)

**Question 6:**

- b) What effects would the following arthropods; tsetse flies, biting flies and lice; have on their hosts? (10 marks)
- c) Describe the integrated pest management control you would use to control the arthropods. (15 marks).

**Question 7:**

- a) Provide broad classification of ticks (5 marks)
- b) Describe the life cycle of Ixodidae ticks relating it to disease transmission (10 marks)
- c) Describe the life cycle of argasid ticks (5 marks)
- d) What effects does tick infestation have on their hosts? (5 marks)

**Question 8:**

- a) Discuss the various tick control measures/methods that may be used in a farm (15 marks)
- b) What causes tick resistance? (5 marks)
- c) Describe ways of overcoming tick resistance in Uganda (5marks)

**THE END =====GOOD LUCK**