



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF AGRICULTURAL AND FOOD SCIENCES**

**SECOND YEAR FIEST SEMESTER UNIVERSITY EXAMINATION FOR THE
DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE, AND BACHELOR
OF SCIENCE IN AGRICULTURAL EXTENSION EDUCATION**

2024/2025 ACADEMIC YEAR

REGULAR

COURSE CODE: AAB 1201

COURSE TITLE: General Parasitology

EXAM VENUE:

**STREAM: BSc. (Agricultural Education and
Extension) and BSc. (Animal Science)**

DATE: 14-01-2025

EXAM SESSION: 14.00-16.00PM

TIME: 2 Hours

Instructions:

- 1. Answer ALL questions in section A and ANY other 2 Questions in section B.**
- 2. Candidates are advised not to write on question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

SECTION A [30 MARKS]

Answer ALL questions from this Section

Question 1

State whether the following statements are TRUE or FALSE

- (a) Larva and pupal stages of a mosquito are aquatic. (1 Mark)
- (b) Parasitic insects exhibit highly altered forms of their structures. (1 Mark)
- (c) Flukes could also be called flatworms. (1 Mark)
- (d) All nematodes are helminths. (1 Mark)
- (e) Parasitic diseases are economically important. (1 Mark)
- (f) Leishmania are transmitted by sandflies. (1 Mark)
- (g) Metacercaria is a stage absent in schistosomes. (1 Mark)
- (h) Broadly, bacteria and viruses are also parasites. (1 Mark)
- (i) Houseflies lay their eggs on manure. (1 Mark)
- (j) *Fasciolidae* includes the largest flukes of their hosts. (1 Mark)

Question 2

- a) Briefly explain the following:
 - i. The role of mosquitoes in the transmission of diseases. (2 Marks)
 - ii. The concept of parasitism and its implications for host and parasite. (2 Marks)
 - iii. The significance of larval stages life cycle of lice. (2 Marks)
- b) Briefly describe (6 marks)
 - i. The sexual reproduction cycle in a vector. (2 Marks)
 - ii. How *Trichomonas foetus* is transmitted and the risks involved. (2 Marks)
 - iii. The function and types of insecticides, specifically Deltamethrin. (2 Marks)

Question 3

- a) Define the following terms:
 - i. Chemoprophylaxis and how it differs from chemotherapy. (2 marks)
 - ii. Reservoir host" and "incidental parasite. (2 marks)

b) Differentiate between the following:

- i. Ectoparasites and endoparasites. (2 marks)
- ii. Vectors and intermediate hosts in the context of parasitology. (2 marks)

SECTION B [40 MARKS]

Answer TWO questions from in this Section

- 4. Discuss the various modes of transmission of parasites. (20 Marks)
- 5. Discuss the control measures for managing ticks and preventing tick-borne diseases. (20 marks)
- 6. Discuss the key characteristics of Platyhelminthes. (20 Marks)

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