



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## UNIVERSITY EXAMINATIONS 2024/2025

SECOND YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR  
OF SCIENCE IN PUBLIC HEALTH

### HPP 3214: PARASITOLOGY AND PEST MANAGEMENT

DATE: JANUARY 2025

TIME: 2 HOURS

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**INSTRUCTIONS: Answer Question ONE and any other TWO questions.**

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#### QUESTION ONE (30 MARKS)

- Giving one example for each, differentiate between definitive and intermediate hosts in parasitic infections (6 Marks)
- Describe four prevention and control mechanisms for infections by Tsetseflies (4 Marks)
- Describe geographical distribution for malaria in Kenya (4 Marks)
- Describe three symbiotic relationships between hosts and parasites (6 Marks)
- Name and describe four types of hosts clearly indicating the diseases they transmit (6 Marks)
- In parasitic disease studies, describe how parasite may evade the immune system and cause disease (4 Marks)



MUST is ISO 9001:2015 and



ISO/IEC 27001:2013 CERTIFIED

## **QUESTION TWO (20 MARKS)**

Discuss how houseflies transfer infectious parasitic agent to humans clearly indicating four types of diseases which may be transmitted through this vector (20 Marks)

## **QUESTION THREE (20 MARKS)**

Giving African schistosomiasis as an example, discuss the following

- a) Transmission (5 Marks)
- b) Lifecycle (5 Marks)
- c) Pathogenesis (5Marks)
- d) Prevention and control (5 Marks)

## **QUESTION FOUR (20 MARKS)**

Discuss parasitic disease management strategies under the following subheadings

- a) Prevention and control (10 Marks)
- b) Methods for breaking the transmission cycles for different parasites (10 Marks)

