

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF MASTER OF SCIENCE
IN PARASITOLOGY

MEPA 820: VECTOR BIOLOGY AND OTHER BORNE-VECTOR DISEASES

STREAMS: MSC.

TIME: 3 HOURS

DAY/DATE: WEDNESDAY 23/04/2025

8.30 A.M. – 11.30 A.M.

INSTRUCTIONS

- Answer question one any other two questions.
- Illustrate your answers with well labelled diagrams and relevant examples.

Q1. Describe in detail the life cycles of the following parasites of human diseases and their vectors.

- a. Malaria (10 marks)
- b. Leishmaniasis (10 marks)

Q2. a. Provide a summary of human viral diseases transmitted by arthropod vectors (10 marks)
b. Describe the clinical signs of severe filariasis in humans and control measures (10 marks)

Q3. Discuss how to differentiate plague, typhus and relapsing fever with reference to causative agent, transmission and symptoms (20 marks)

Q4. Discuss at least **five (5)** current technologies and innovations in vector and parasitic disease management. Illustrate your answers with relevant examples. (20 marks)

Q5. Elaborate on the life cycle of fresh water snails and their role as vectors of human parasites (20 marks)