



# **MURANG'A UNIVERSITY OF TECHNOLOGY**

## **SCHOOL OF PURE APPLIED AND HEALTH SCIENCES**

DEPARTMENT OF MEDICAL LABORATORY SCIENCES

UNIVERSITY ORDINARY EXAMINATION

2021/2022 ACADEMIC YEAR

**THIRD YEAR FIRST SEMESTER EXAMINATION FOR BACHELOR OF  
MEDICAL LAB**

MML305: MEDICAL PARASITOTOLOGY II

DURATION: 2 HOURS

### **INSTRUCTIONS TO CANDIDATES:**

1. Answer question one and any other two questions
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

### QUESTION ONE (30 MARKS)

- a) Explain the transmission mode of the following in human and its infective stage.
- i. *Schistosoma mansoni*. (1 mk)
  - ii. *Fasciola hepatica*. (1 mk)
  - iii. *Strongyloides stercoralis*. (1 mk)
  - iv. *Taenid solium*. (1 mk)
  - v. *Brugia Malayi*. (1 mk)
- b) Define the following terminology associated with parasites.
- i. Free living. (1 mk)
  - ii. Poulitice practicel(s). (1mk).
  - iii. Immunological mimicry. (1 mk).
  - iv. Rhabtdiiform larvae. (1 mk)
  - v. Auto infection. (1 mk)
- c) Describe the life cycle of Bovine tapeworm using statements in the human species specifically. (5marks)
- d) With a well labelled diagram differentiate the graavade proglottid of pork tapeworm from beef tapeworm. (5 mks)
- e) Explain the significance of copepod crustaceans in parasitism. (5 mks)
- f) State 2 signs and 3 symptoms associated with fasciohopsis infection. (5 mks)

### g) QUESTION TWO (20 MARKS)

- a) With labelled diagrams differentiate the nematode "hookworm" as per the 2 species through;
- i. Adult stages. (10 mks)
  - ii. Geographical distribution/habitation (10 mks)

### QUESTION THREE (20 MARKS)

- a) Outline step-by- step Laboratory diagnosis processes of:
- i. Zinc floatation method. (10 mks)
  - ii. Formol Ether concentration of stod method. (10 mks)

### QUESTION FOUR (20 MARKS)

- a) Outline Step- by- step lifecycle events of:
- i. *Wuchereria bancheti* in both intermediate and definitive host. (10 mks)
  - ii. *Schistesoma haematobium* in human. (10 mks)