



MURANG'A UNIVERSITY OF TECHNOLOGY

SCHOOL OF PURE, APPLIED AND HEALTH SCIENCES

DEPARTMENT OF HEALTH SCIENCES

UNIVERSITY ORDINARY EXAMINATION

2023/2024 ACADEMIC YEAR

SECOND YEAR SECOND SEMESTER EXAMINATION FOR BACHELOR

OF SCIENCE IN MEDICAL LABORATORY SCIENCES

MML 212 – MEDICAL PARASITOLOGY

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.

SECTION A – ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (30 MARKS)

- a) Describe the mechanisms by which parasites impose their effects on the host. (5 marks)
- b) Describe the pathogenesis of *Echinococcus granulosus*. (5 marks)
- c) Tabulate the differences between pseudophyllideans and cyclophyllideans. (5 marks)
- d) Giving examples, describe differences between cestodes and nematodes. (5 marks)
- e) Describe the characteristics of the reproductive system of the trematodes. (5 marks)
- f) Outline the standard operating procedure for Kato-Katz technique. (5 marks)

SECTION B – ANSWER ANY TWO QUESTIONS IN THIS SECTION

QUESTION TWO (20 MARKS)

Discuss schistosomiasis under the following headings;

- i. Transmission (3 marks)
- ii. Lifecycle and pathogenesis (15 marks)
- iii. Prevention and treatment (2 marks)

QUESTION THREE (20 MARKS)

Discuss the quality control measures undertaken in a parasitology laboratory. (20 marks)

QUESTION FOUR (20 MARKS)

Describe the socio economic impact of filariasis to the community. (20 marks)