



MACHAKOS UNIVERSITY

University Examinations for 2022/2023 Academic Year

SCHOOL OF PURE AND APPLIED SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR
BACHELOR OF SCIENCE IN BIOLOGY

SZL406: MEDICAL HELMINTHOLOGY

DATE: 7/3/2023

TIME: 11:00 – 1:00 PM

INSTRUCTIONS

1. Answer question 1 (compulsory) and any other two questions
2. Illustrate your answers with diagrams wherever appropriate.

QUESTION ONE (30 MARKS)

- a) Outline a laboratory procedure for diagnosing anaemia. (3 marks)
- b) Briefly describe how infection to man by *Dipyridium caninum* occurs (3 marks)
- c) Explain any three methods of prevention of infection by *Schistosoma haematobium*.
- d) Explain why Hydatidosis is considered as Zoonotic. (3 marks)
- e) Explain the effects of a heavy infestation by *Taenia saginata* in man. (3 marks)
- f) Explain the symptoms exhibited following infection by a filaria worm in man. (3 marks)
- g) Explain the predilection sites of any three nematodes. (3 marks)
- h) Explain the symptoms characteristic to infections by pinworms in man. (3 marks)
- i) Explain the predisposing factors to infection of nematodes to man. (3 marks)
- j) Illustrate the structure of a gravid proglottid (3 marks)

QUESTION TWO (20 MARKS)

Discuss the epidemiology, and a contemporary method of managing lymphatic filariasis in Kenya

QUESTION THREE (20 MARKS)

Discuss the major taxonomy of helminths infectious to man.

QUESTION FOUR (20 MARKS)

- a) Discuss how man gets infected with the Lancet fluke (6 marks)
- b) Discuss the lifecycle of *Ascaris lumbricoides* (14 marks)

QUESTION FIVE (20 MARKS)

Discuss how molluscs contribute to the epidemiology of helminthic infections of man