



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2023/2024

THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF SCIENCE IN BIOTECHNOLOGY

SHD 3352: HELMINTHOLOGY

DATE: APRIL 2024

TIME: 2 HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) Outline the prevention measures against the spread of *Taenia saginata* (4 marks)
- b) State the intermediate host/s of the following parasites (4 marks)
 - a. *Wuchereria bancrofti*
 - b. *Fasciola hepatica*
- c) Explain the following terms (4 marks)
 - a. Ovoviparous
 - b. Oviparous
- d) Differentiate between the scolex of *Taenia saginata* and *Taenia solium* (4 marks)
- e) Outline the measures that can be put in place to prevent the spread of *Schistosoma haematobium* (4 marks)

- f) Explain the diagnosis of *Echinococcus granulosus* (4 marks)
- g) Differentiate between the parasite *Ancylostoma duodenale* and *Necator americanus* (4 marks)
- h) Describe the general characteristics of the class Nematoda (2 marks)

QUESTION TWO (20 MARKS)

Discuss in detail the life cycle of *Wuchereria bancrofti* (20 marks)

QUESTION THREE (20 MARKS)

- i) Explain the scotch tape technique used in diagnosis of *Enterobius vermicularis* (12 marks)
- ii) Describe the morphology of a hydatid cyst using a well labelled diagram (8 marks)

QUESTION FOUR (20 MARKS)

Discuss in your own words, the measures you would put in place to control intestinal nematodes (20 marks)