



# MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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## University Examinations 2022/2023

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

### SHD 3350: HELMINTHOLOGY

DATE: APRIL 2023

TIME: 2 HOURS

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

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#### QUESTION ONE (30 MARKS)

- a) Illustrate the four main body forms of nematodes (fiuses) (8 marks)
- b) Distinguish between two named Helminths of the genus Hymenocephis (4 marks)
- c) Explain the differences between *T. saginata* and *T. solium* in regard to the following
  - (i) Pathology (3 marks)
  - (ii) Scorcx morphology (3 marks)
- d) Describe the following terms:
  - (i) Definitive host (2 marks)
  - (ii) Cercaria (2 marks)
  - (iii) Miracidium (2 marks)

#### QUESTION TWO (20 MARKS)

Discuss the adaptations of cestodes to parasitic life (20 marks)

#### QUESTION THREE (20 MARKS)

Discuss the general features of the life cycle of parasitic *Degoneum* nematodes (20 marks)

**QUESTION FOUR (20 MARKS)**

discuss the control of human Helminthic parasites using specific examples (20 marks)