

CHUKA



UNIVERSITY

**SUPPLEMENTARY/ SPECIAL EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF  
BACHELOR OF SCIENCE IN BIOMEDICAL TECHNOLOGY**

**BMET 233: MEDICAL HELMINTHOLOGY**

**STREAMS: BMET**

**TIME: 2 HOURS**

**DAY/DATE: MONDAY 01/02/2021**

**8.30 AM – 10.30 AM**

---

**INSTRUCTIONS:**

*Answer question one and any other two questions*

**Question 1 (Compulsory) (30 marks)**

- a) Explain 5 general characters of cestodes. (5 Marks)
- b) Highlight 5 pathways through which humans get exposed to helminthes. (5 Marks)
- c) Describe the life cycle of *Strongyloides stercoralis*. (6 Marks)
- d) Describe the treatment and diagnosis of onchocerciasis. (6 Marks)
- e) Outline 3 differences between *Hymenolepis diminuta* and *Hymenolepis nana*. (3 Marks)
- f) Describe briefly the laboratory diagnosis of *Fasciola hepatica*. (5 Marks)

**Question 2 (20 marks)**

- a) Describe the morphology and life cycle of *Taenia solium* infection. (10 Marks)
- b) (i) Name etiologic agent for trichinosis. (1 mark)
- (ii) Discuss the pathogenicity and life cycle for the infection caused by the parasite named in (i) above. (9 marks)

**Question 3 (20 marks)**

- a) Describe, in detail, the life cycle and diagnosis of *Taenia signata*. (10 Marks)
- b) State 5 medically important species schistosomes and indicate the diseases they cause in man. (10 marks)

**Question 4 (20 marks)**

- a) Describe clinical features, diagnosis and treatment of *Ascaris lumbricoides*.  
(10 marks)
- b) Discuss mode of transmission and pathogenesis of *Wuchereria bancrofti*.  
(10 marks)
-