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CHUKA

UNIVERSITY



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UNIVERSITY EXAMINATIONS

SPECIAL/RESIT EXAMINATION

SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELORS OF  
BIOMEDICAL SCIENCE AND TECHNOLOGY

**BMET 233: MEDICAL HELMINTHOLOGY**

**STREAMS: BCOM**

**TIME: 2 HOURS**

**DAY/DATE: THURSDAY 13/9/2018**

**11.30 A.M. – 1.30 P.M.**

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**INSTRUCTIONS**

- Answer question **ALL** questions.
- Sketch diagrams may be used whenever they may help to illustrate your answer.
- Do not write anything on the question paper.
- This is a closed book exam. **No** reference materials are allowed in the examination room.
- There will be **No** use of mobile phones or any other unauthorized materials.

**QUESTION ONE (30 MARKS)**

- Discuss damage to the intestinal mucosa caused by *A. lumbricoides* and the two major hookworms. (5 marks)
- With a use of a diagram, trace the life cycle for *Ascaris lumbricoides* (9 marks)
- Provide an explanation of how prevention of infection by tapeworms could be achieved (6 marks)
- Discuss the role of an intermediate host in the life cycle of the parasite (5 marks)
- Explain why humans are considered accidental or incidental hosts (5 marks)

**QUESTION TWO (20 MARKS)**

- What are the differences and similarities between *T. saginata* and *T. solium* (8 marks)

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g. Discuss the development of cysticerci and the process of infecting definitive or final host

(5

marks)

h. With an aid of relevant examples, elucidate how response against Helminth infection can lead to tissue injury (7 marks)

**QUESTION THREE (20 MARKS)**

i. Discuss Trichinosis under the following sub-headings

a. Causative agent (1 marks)

b. Brain and meninges symptoms (3 marks)

c. Life cycle of the causative agent (8 marks)

d. Diagnosis (2 marks)

j. Describe the main modes of transmission by which the Helminth larvae can infect new hosts

(6

marks)

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