CHUKA



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SECOND YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN BIOMEDICAL SCIENCE & TECHNOLOGY

BMET 233: MEDICAL HELMINTHOLOGY

STREAMS: BSC (BMET) Y2S2 TIME: 2 HOURS

DAY/DATE: WEDNESDAY 15/04/2020 11.30 A.M. – 1.30 P.M.

INSTRUCTIONS: Answer question ONE and any other TWO questions

QUESTION 1 (COMPULSORY) (30 MARKS)

a) Outline 4 factors which influence distribution of helminthes. (4 marks)

- b) Describe 5 ways through which humans get exposed to helminthes. (5 marks)
- c) A 12-year-old male was brought in by his mother for evaluation of diarrhea and crampy abdominal -pain of 2 weeks duration. That morning he had an "accident" in his pants and saw something move. His mother thought it was an earthworm. He had no fever, cough, or hemoptysis. His physical examination was unremarkable. The family had recently moved from slums.
 - (i) What is the differential diagnosis in this case? (5 marks)
 - (ii) How would you establish the diagnosis? (2 marks)
- d) Describe the life cycle of *Strongyloidesstercoralis*. (6 marks)
- e) Outline 5 ways through whichonchocerciasis disease can be prevented. (5 marks)
- f) Highlight 3 differences between *Hymenolepisdiminuta* and *Hymenolepis nana*.

(3 marks)

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QUESTION 2 (20 MARKS) a) Describe the life cycle and clinical features of *Drancunculus medinesis* infection. (10 marks) b) (i) Name the etiologic agent fortrichinosis. (1 mark) (ii) Discuss the pathogenicity, life cycle and clinical features for the infection caused by the parasite named in (i)above. (9 marks) **QUESTION 3 (20 MARKS)** a) Describe, in detail, the life cycle, pathogenicity and prevention of Taeniasignata. (10 marks) b) State 5 medically important species of schistosomes and indicate the diseases they cause (10 marks) in man. **QUESTION 4 (20 MARKS)** a) Describe life cycle, pathogenicity, clinical features, diagnosis and treatment of (10 AscarisLumbricoides. marks)

b) Discuss mode of transmission, pathogenesis and diagnosis of Wuchereriabancrofti.

(10 marks)