

UNIVERSITY EXAMINATIONS

 THIRD YEAR EXAMINATION FOR THE AWARD OF THE DEGREE OF

 BACHELOR OF SCIENCE IN ZOOLOGY

 SECOND SEMESTER 2022/2023

[JANUARY-APRIL, 2023]

ZOOL 341: HELMINTOLOGY

STREAM: Y3S2

TIME: 2 HOURS

DAY: TUESDAY, 3:00 - 5:00 PM

DATE: 18/04/2023

<u>INSTRUCTIONS</u> 1. Do not write anything on this question paper.

2. Answer Question ONE and any TWO other Questions in Section B.

SECTION A 40 MARKS (ANSWER ALL QUESTIONS)

Question 1

Give one example in each case of

(a) Commensalism,	(1mark)
(b) Symbiosis	(1mark)
(c) Mutualism	(1mark)

Question 2

Name three major groups of helminths containing members that have man as their main host. (3 marks)

Question 3

Distinctions between Fasciola hepatica and F. gigantica. (3marks)

Question 4

Briefly explain the following types of hosts; reservoir, accidental, definitive and intermediate hosts. (4 marks)

Question 5

State the disease caused by the following parasites. (5 marks)

- a. Wuchereria bancrofti
- b. Onchocerca volvulus
- c. Dracunculus medinensis
- d. Anisakiasis
- e. Paragonimus westermani

Question 6

Giving one example in each case classify the digeneans based on their locations in the definitive hosts. (5 marks)

Question 7

a. State the morphological differences between *Ancylostoma duodenale* and *Necator americanus* species of hookworms. (5 marks)

b. Apart from subclass Digenia, state other two subclasses of class Trematoda. (2 marks)

Question 8

Outline five comparative features of the following human schistosome species: *Schistosoma mansoni, S. haematobium* and *S. japonicum*. (10 marks)

SECTION B 30 MARKS (ANSWER ANY TWO QUESTIONS)

Question 9

Cercaria is one of the larval digeneans, with aid of illustrations where necessary explain various types of cercariae. (15marks)

Question 10

a) Outline the major differences between *Taenia saginata* and *T. solium*.

(5 marks)

b) Give a concise description of the various larval forms of cestodes. (10marks)

Question 11

Discuss the life cycle of Ascaris lumbricoides.