

UNIVERSITY OF SWAZILAND

RE-SIT EXAMINATION PAPER 2020/21

TITLE OF PAPER : PARASITOLOGY

COURSE CODE : BIO446

TIME ALLOWED : THREE HOURS

INSTRUCTIONS :  
1. ANSWER ANY FOUR (4) QUESTIONS  
2. WHEREVER POSSIBLE ILLUSTRATE YOUR ANSWERS  
WITH LARGE CLEARLY LABELLED DIAGRAMS

SPECIAL REQUIREMENTS: NONE

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE  
INVIGILATORS

QUESTION 1

Differentiate between the following types of hosts and briefly discuss ~~and~~ how knowledge on these contributes to control strategies: definitive, intermediate, factitious, reservoir host.

[Total = 25 marks]

QUESTION 2

Using named examples, differentiate between pseudophyllidean and cyclophyllidean development in the Class Cestoda.

[Total = 25 marks]

QUESTION 3

a. Discuss nematodes as parasites, giving examples of life-cycles and medical importance. (15)

b. Using a named parasite, describe and order these terms:

cercariae, miracidium, rediae, metacercariae, sporocyst (10)

[Total = 25 marks]

QUESTION 4

a. Briefly discuss the host-parasite interface, giving examples where applicable. (15)

b. Illustrate the various routes of parasite transmission. (10)

[Total = 25 marks]

QUESTION 5

Write an essay on the protozoans as agents of economically significant diseases in Swaziland.

[Total = 25 marks]

QUESTION 6

a. Discuss in detail strategies and methods used in the prevention and control of Human African Trypanosomiasis (15)

b. Differentiate between the following:

i. Endemic and epidemic

ii. Antigen and antibody

iii. Host susceptibility and host resistance (10)

[Total = 25 marks]