

THE OPEN UNIVERSITY OF SRI LANKA
DEPARTMENT OF ZOOLOGY
BSc DEGREE PROGRAMME
FINAL EXAMINATION 2021 / 2022
COURSE TITLE: PARASITOLOGY
COURSE CODE: ZYU5304
DURATION: TWO HOURS



114

DATE: 14 October 2022

TIME: 2.00 pm – 4.00 pm

ANSWER ANY FOUR (4) QUESTIONS.
ILLUSTRATE ANSWERS WITH LABELLED DIAGRAMS WHERE NECESSARY.

1. Justify the following statements using suitable examples.
 - i) Many parasites show behavioural adaptations for active host location. [40 marks]
 - ii) Parasites often have attachment devices. [40 marks]
 - iii) Protozoan and helminth parasites have immune evasion strategies. [20 marks]
2. Write an essay on symbiotic associations. [100 marks]
3. Explain the following with respect to *Plasmodium falciparum*.
 - i) Development in the mosquito vector. [50 marks]
 - ii) Techniques available for the laboratory diagnosis of a human infection. [50 marks]
4. Write on the following.
 - i) Pathology and symptoms of hookworm disease. [50 marks]
 - ii) Transmission of *Taenia solium* infections to human. [50 marks]
5. A farmer in an African village is diagnosed with an infection of *Schistosoma mansoni*.
 - i) Illustrate the life cycle of *S. mansoni* using a detailed line diagram. [64 marks]
 - ii) What are the major features that are different between the life cycles of *Paragonimus* and *Schistosoma*? [36 marks]
6. Write notes on two (02) of the following.
 - a) Prevention and control of Leishmaniasis [50 marks]
 - b) Hydatid cyst of *Echinococcus granulosus* [50 marks]
 - c) Harmful effects of parasites on their hosts. [50 marks]

