



RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES

B.Sc. (General) Degree in Applied Sciences
Third year – Semester II Examination - February/March 2019

ZOO 3108 –APPLIED PARASITOLOGY

Time: One and half (01½) hours

Answer **Three (03)** questions only.

1. a) Briefly discuss the life cycle of *Bertiella studeri* with special reference its medical importance in Sri Lanka.
(25 marks)
b) A patient is admitted to the hospital with symptoms of coughing, difficulty in breathing, slight fever and blood stained sputum. Medical laboratory tests revealed eggs of a parasite species mainly in the sputum samples and some in stool samples. Further, the patient had been consuming traditional meals containing freshwater crustaceans for several years. By analyzing symptoms, diagnostic results, patient lifestyle write a brief account on, geographical distribution, life cycle, disease, symptoms, prevention and control methods of above parasite .
(75 marks)
2. a) State the prevention and control methods of parasitic diseases caused by blood flukes.
(25 marks)
c) i. Name **two (02)** parasitic cestodes which cause **larval cestodiasis** in humans.
ii. Using the life cycle of **one (01)** species that you mentioned above, briefly discuss how these larval stages cause cestodiasis.
(75 marks)
3. a) i. State the different lifecycle stages of parasitic nematodes.
ii. Name **four (04)** soil transmitted parasitic nematodes which cause human diseases.
(25 marks)
b) Write a brief account on geographical distribution, life cycle, symptoms, diagnosis, treatment, prevention and control of parasitic disease caused by hook worms.
(75 marks)

4. Intermediate hosts play a significant role by ensuring the continuity of the life cycles of many parasitic species. Discuss the above statement using the life cycle of *Dipylidium caninum*

(100 marks)

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