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RAJARATA UNIVERSITY OF SRI LANKA
FACULTY OF APPLIED SCIENCES

B.Sc. in Applied Sciences
Third year – Semester II Examination – July 2020

ZOO 3202 – APPLIED PARASITOLOGY

Time: Two (02) hours

Answer **FOUR (04)** questions only.

1. a) State why African sleeping sickness is restricted to African countries. **(10 marks)**

   b) What is the parasitic disease caused by a haemoflagellate which causes the symptom named as "Romana sign" and is native to South American countries? **(15 marks)**

   c) Using the life cycle, explain the method of transmission, infective stage, diagnosis, control and prevention methods of above disease in part "**b**". **(75 marks)**

2. "Disease Schistosomiasis can be control by improving sanitary facilities, controlling aquatic snail populations and through public awareness." Drawing special reference to the life cycles of *Schistisomia* spp, discuss the above statement. **(100 marks)**

3. The owner of a two years old pet dog, reports to the veterinary doctor that she found small white, cucumber seed shaped worms in her dog's stools. The samples were observed macroscopically and microscopically. The structures resembled the proglottids of a tape worm. A wet mount revealed proglottids with two genital pores, one on each side, and eggs clustered in packets.

   Using above information identify the parasitic species and give a brief account its life cycle (indicating definitive host, intermediate host, infective and diagnosis stages), symptoms, treatments, control and prevention methods of the mentioned disease. **(100 marks)**

4. a) Briefly explain the life cycle of *Trichinella spiralis*. **(40 marks)**
   b) Using your understanding of the above life cycle, develop a public awareness program to minimize the spread of the parasite. **(60 marks)**

5. Write short notes on any **two (02)** of the following
   a) Cysticercosis caused by *Taenia solium*.
   b) Consumption of raw vegetables without proper washing leads to parasitic diseases caused by liver flukes.
   c) Larval development of *Strongyloides sterocalis*

(100 marks)

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