

THE OPEN UNIVERSITY OF SRI LANKA
 FACULTY OF NATURAL SCIENCES
 DEPARTMENT OF ZOOLOGY
 B.Sc. DEGREE PROGRAMME
 FINAL EXAMINATION 2013/2014
 PARASITOLOGY - ZLU3184 / ZOU3164 / ZLE5184
 DURATION: TWO HOURS



DATE: 6th June 2014

TIME: 9.30 a.m. – 11.30 a.m.

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

1. Compare *Diphyllbothrium latum* with *Taenia solium* with respect to adult morphology and life cycle.
2. A 5-year old child is brought to the doctor with abdominal pain and nausea. The stool sample collected from the child is watery, fowl smelling and fatty, but without any blood stains. The child is diagnosed to have a protozoan infection.
 - i) What is your diagnosis of the disease and the parasite species causing the symptoms?
 - ii) Explain the laboratory investigations that would have been done to make the diagnosis.
 - iii) Outline the transmission of this parasite infection.
 - iv) What advice on preventive measures will you give the parents to avoid re-infection?
3. In the history of life on earth, the parasitic lifestyle has been extremely successful. Discuss this statement using named examples to illustrate the answer.
4.
 - i) Describe the schizogonic cycles of the malaria parasite.
 - ii) Write briefly on the pathogenesis and symptoms of falciparum malaria.
5.
 - i) Illustrate the life cycle of *Clonorchis sinensis* in a detailed line diagramme.
 - ii) Discuss how human behaviour influences food-borne trematode infections.
6. Write notes on pathogenesis and symptoms of any two (02) of the following:
 - a) Ascariasis.
 - b) Bancroftian Filariasis.
 - c) Hookworm disease.
