

THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF NATURAL SCIENCES
DEPARTMENT OF ZOOLOGY
B.Sc. DEGREE PROGRAMME
FINAL EXAMINATION 2014/2015
PARASITOLOGY - ZLU3184 / ZOU3164
DURATION: TWO HOURS



DATE: 29th April 2015

TIME: 9.30 am – 11.30 am

ANSWER ANY FOUR (4) QUESTIONS.

ILLUSTRATE ANSWERS WITH LABELLED DIAGRAMS WHERE NECESSARY.

1. Name a facultative nematode parasite that can infect humans and describe the different pathways of its life cycle.
2. Explain the following with respect to *Giardia lamblia*.
 - i) Morphology of the life cycle stages
 - ii) Direct and indirect routes of transmission to human
 - iii) Routine technique used for its laboratory diagnosis
3. Outcome of a host-parasite interaction depends on effects of the parasite on the host and response of the host against the parasite. Comment briefly on this statement.
4. A farmer working in an irrigated rice cultivation scheme in Kenya was diagnosed with a parasitic disease on detection of following eggs in his urine sample: oval-shaped, yellow-brown in colour, large in size (130 μm x 50 μm), with a characteristic terminal spine.
 - i) Name the most probable parasitic disease and identify its causative organism
 - ii) What factors would have facilitated transmission of this parasite infection to the farmer?
 - iii) Propose your recommendations to control the parasite infection amongst this farming community in future
5. Why are flatworms such successful parasites? Explain with relevant examples.
6. Write notes on the pathogenesis and symptoms of any two (02) of the following.
 - a) Falciparum malaria
 - b) Tick infestations
 - c) Hookworm disease
