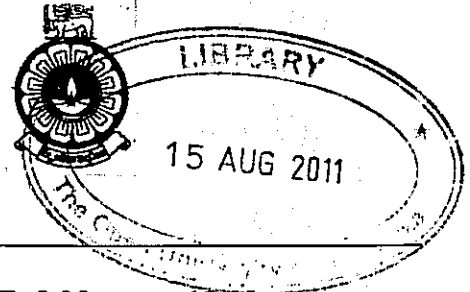


THE OPEN UNIVERSITY OF SRI LANKA
 B.Sc. DEGREE PROGRAMME
 FINAL EXAMINATION 2010/2011
 COURSE TITLE: PARASITOLOGY
 COURSE CODE: ZOU3164/ZOE5164



DATE: 16th December 2010

TIME: 9.30 a.m. – 12.00 p.m.

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

1. Highlight the major differences between:
 - (i) Life cycles of *Paragonimus* and *Schistosoma*.
 - (ii) Morphology of life cycle stages of *Entamoeba histolytica* and *Entamoeba coli*.

2. i) Describe the sporogonic cycle of *Plasmodium vivax*.
 ii) *Plasmodium* exhibits many adaptations for parasitism. Justify the statement.

3. Apply the knowledge you have of *Wuchereria bancrofti* to propose an effective control programme against filariasis in Sri Lanka.

4. Comment on the statement that “the outcome of a parasitic infection depends on the effects of parasite on host and the effects of host on parasite.

5. Explain the following aspects of *Enterobius vermicularis* and *Trypanosoma brucei*.
 - i) Strategies for getting from one host to another and factors that promote such transmission.
 - ii) Laboratory diagnosis of an infection with the parasite.

6. Write short notes on any three (03) of the following.
 - a) Morphology of *Trichuris trichiura* adult worms.
 - b) Hydatid cyst of *Echinococcus granulossus*.
 - c) Biological and mechanical vectors.
 - d) Tungiasis.
 - e) Human cysticercosis.
