EASTERN UNIVERSITY, SRI LANKA 1 1 DEC 2008 SECOND YEAR IN SCIENCE 1998/99 (Re-repeat)

EXTERNAL DEGREE (UNIT SYSTEM) 2004/05 MAY 2008 EX ZL 203&204 PRINCIPLES OF DEVELOPMENTAL BIOLOGY Stry, & PARASITOLOGY

Time: 0 2 Hours

Answer four questions only selecting at least 2 questions from part A and at least 2 questions from part B. (Illustrate your answers with clear labeled diagrams where necessary)

Part A Developmental Biology

1.a. What are foetal membranes?

- b. With the diagrammatic drawings, explain the functions of foetal membranes and placenta in mammals.
- 2. Comment on any two of the following:
  - a. Neurulation in amphibia;
  - b. Acrosomal reaction;
  - c. Age-related diseases.
- 3. a. What is metamorphosis?
  - b. Explain the role of hormones in the metamorphosis of an insect.

## Part B Parasitology

- 4. Discus the life cycle of Trypanosoma spp you have studied and justify the suitable environmentally friendly control measures to cure the sleeping sickness out break in African countries.
- 5. Briefly describe the life cycle of the following with the primary host, vector, intermediate host and disease produced.
  - a. Plasmodium vivax
  - b. Entamoeba histolytica
  - c. Schistosoma mansoni
- 6.Discuss the life cycle and the path of infection to new host by Dracunculus medinensis.

XXXXXXXXXXXX