

EASTERN UNIVERSITY, SRI LANKA
FIRST EXAMINATION IN SCIENCE 2002/ 2003(September 2005)
EXTERNAL DEGREE

SECOND SEMESTER

EXZL 102 ANIMAL DIVERSITY

Time: 02 Hours.

Answer all questions.

(Illustrate your answers with clear labelled diagrams where necessary).

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1. a) Name locomotor organelles of the protozoans and state the differences between the organelles mentioned above.
b) What is meant by the term "polymorphism" ? Comment

2. Write short notes on three of the following:
 - a) Diversity of parasitic trematodes
 - b) Filter feeding mollusc
 - c) Serial homology
 - d) Role of feathers in flight
 - e) Trochophore larva

3. a) Describe the water vascular system in Echinoderms and its functions in locomotion.
b) Comment on the structural adaptations which are suitable for aquatic life in amphibians.

4. a) Name the structures concerned with temperature regulation in mammals and describe how it is adapted to regulate the temperature in body.
b) Distinguish between a coelom and a pseudocoelom considering with one example of animal group in each case.