

EASTERN UNIVERSITY, SRI LANKA

EXTERNAL DEGREE

FIRST EXAMINATION IN SCIENCE 1996/97 Repeat (June 2004)

EXZL 102 ANIMAL DIVERSITY

Time: 02 hours

Answer the **first** question and any **three** questions only.

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

1.
 - a. Name a unicellular animal you have studied.
 - b. What is conjugation? In which unicellular animal does it take place?
 - c. Name an animal that possesses pseudocoelom.
 - d. Distinguish between coelomate and acoelomate animals.
 - e. Define metamerism and name animals in which this is found.
 - f. What is tagmatization?
 - g. Name an animal that depends on hydrostatic skeleton for locomotion.
 - h. In which animal do you find an endostyle? Stat its function.
 - i. What do you understand by 'analogy'?

2.
 - a. Comment on the locomotory structure of *Paramecium* spp.
 - b. Write briefly on the type of spicules in sponge
 - c. Draw and label the body wall of hydra.

3.
 - a. What is polymorphism? Explain with examples.
 - b. Write down the adaptive features of parasitic Platyhelminthes.

Contd/2

- 4.
- a. Comment on the adaptation of polychaete for a sedentary life.
 - b. Distinguish the structural differences between the exopterygote and endopterygote insects.
- 5.
- a. Comment on the adaptation for locomotion and feeding of star fish.
 - b. Name a tunicate and briefly describe its characteristics.
6. Write short notes on the following:
- a. Flight adaptation in birds.
 - b. Terrestrial adaptation in Amphibians.

