

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

- a. Comment on the adaptation of polychaete for a sedentary life.
- b. Distinguish the structural differences between the exopterygote and endopterygote insects.

- a. Comment on the adaptation for locomotion and feeding of star fish.
- b. Name a tunicate and briefly describe its characteristics.

Write short notes on the following:

- a. Flight adaptation in birds.
  - b. Terrestrial adaptation in Amphibians.
-